

FILE NOTATIONS

Entered in MFD File✓....
 Location Map Filled✓....
 Card Indexed✓....

Checked by Chief✓....
 Approval Letter 1-23-15
 Disapproval Letter

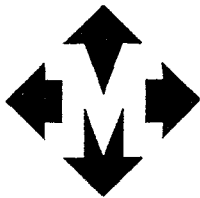
COMPLETION DATA:

Date Well Completed 4-12-75
 OW..... WW..... TA.....
 GW..... OS..... PA.....

Location Inspected
 Bond released
 State or Fee Land

LOGS FILED

Driller's Log.....
 Electric Logs (No.) ..✓....
 E..... S..... Drill Log..... CR-W..... Micro.....
 *RC Sonic CR..... Log..... M-I..... Sonic.....
 CBLog..... CCLog..... Others.....



mapco
INC.

PRODUCTION DIVISION

January 14, 1975

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Mr. Cleon B. Feight

Re: Application in Compliance
With Rule C-11
Division of Oil and Gas Conservation
State of Utah

Gentlemen:

We are sending with this letter three (3) copies each of an Application for Administrative Approval, pursuant to Rule C-11, for the authorization of drilling two water disposal wells and the underground disposal of water produced with oil from wells in the Altamont Field, Duchesne County, Utah. The location of these wells are as follows:

MAPCO, Allred WDW No. 2-16, NE NE (470.45' FNL & 1292.05' FEL)
Section 16, T. 1 S., R. 3 W., Duchesne County

MAPCO, Birch WDW No. 2-35, NE NE (852.81' FNL & 1196.74' FEL)
Section 35, T. 1 S., R. 5 W., Duchesne County

Copies of the well survey plats were made from telecopy prints of the original. We have not received the original copies of these plats as yet, but will forward sets to you when we receive them.

We trust this takes care of everything needed for the approval of this Application. If we have overlooked anything, please let us hear from you.

Very truly yours,

MAPCO INC.

J. D. Holliman
J. D. Holliman
Manager of Operations
Northern District

/awm

SUITE 320 PLAZA WEST 1537 AVENUE D BILLINGS, MONTANA 59102 A/C 406 248-7406
Enclosures

1/17/74
OK above
application - called
to Jerry Wark on
phone. (BA)

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Allred

9. WELL NO.

WDW 2-16

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Section 16

T. 1 S., R. 3 W., USM

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐

OTHER Disposal Well

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MAPCO Inc.

3. ADDRESS OF OPERATOR

Suite 320 Plaza West
1537 Avenue D, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE NE (470.45' FNL & 1292.05' FEL)

At proposed prod. zone

Section 16, T. 1 S., R. 3 W., USM

Duchesne County, Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles N.E. Altamont

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

470.45'

16. NO. OF ACRES IN LEASE

120

17. NO. OF ACRES ASSIGNED

TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

238.9'

19. PROPOSED DEPTH

4600'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6315' G.L.

22. APPROX. DATE WORK WILL START*

February 20, 1975

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	Mixed	300'	As required
8-3/4"	7"	23#	4600'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including 3000 psi BOP assembly and any other required equipment. The casing will be pressure tested in order to protect oil, gas, and fresh water resources.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE JAN 23 1975

BY *Clean D. Tughr*

IN ABOVE SPACE-DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. *J. D. Holliman* Manager of Operations
SIGNED *J. D. Holliman* TITLE Northern District

DATE January 14, 1975

(This space for Federal or State office use)

PERMIT NO.

43-013-30361

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

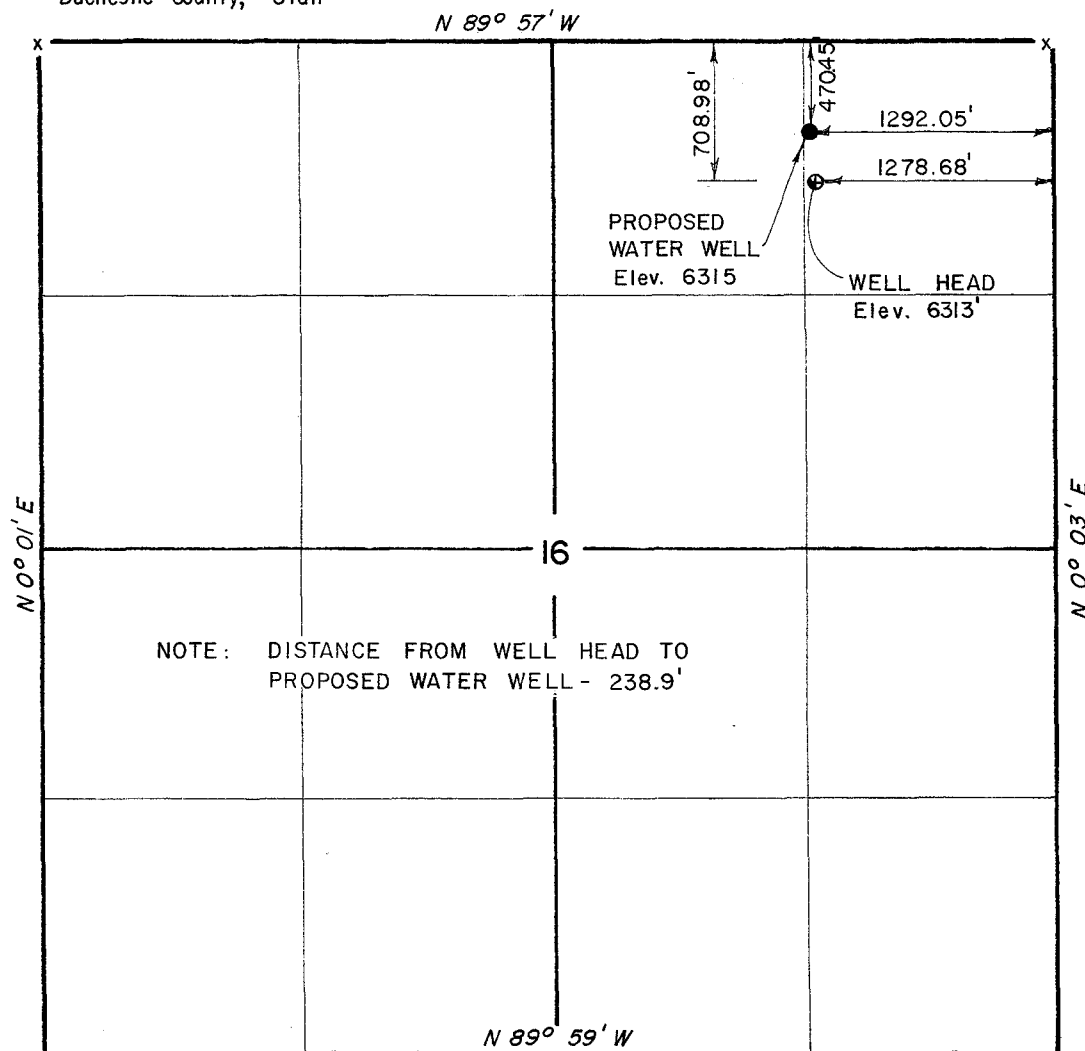
JAN 24 1975

MAPCO INCORPORATEDALLRED WELL

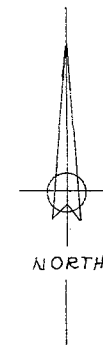
Well Location, located as shown in
the NE 1/4, NE 1/4, Section 16

T.1S., R.3 W., U.S.B. & M.

Duchesne County, Utah

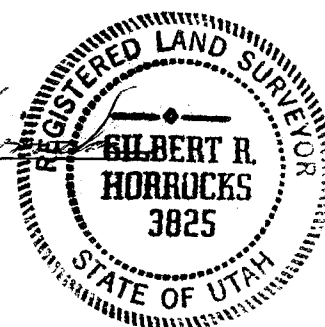


x = Section Corner Location

CERTIFICATE

I, Gilbert R. Horrocks, do hereby
certify that the above plat was
prepared from field notes of actual
surveys made by me or under my
supervision and that the same are
true and correct to the best of my
knowledge and belief.

Gilbert R. Horrocks
Gilbert R. Horrocks,
Registered Land Surveyor
Certificate No. 3825

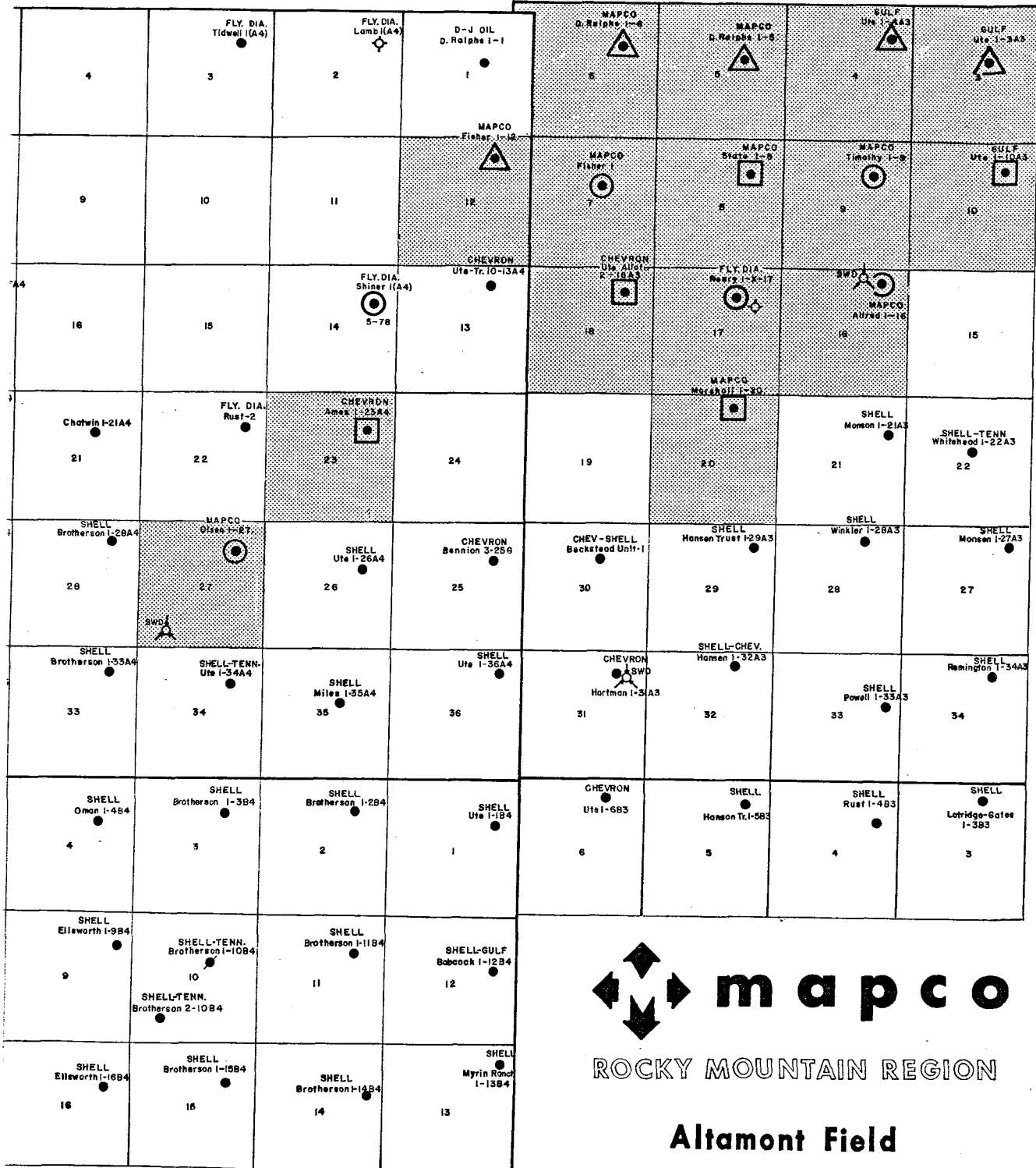


HORROCKS & ASSOCIATES
CONSULTING ENGINEERS
Box 335, Roosevelt, Utah

Scale 1" = 1000'	Date 1/10/75
Drawn GP	Approved
Checked RVH	Engineer

R 4 W

R 3 W



Gulf Oil Company - U.S.

PRODUCTION DEPARTMENT
CASPER AREA

Oscar E. Stoner
AREA PRODUCTION MANAGER

P. O. Box 2619
Casper, Wyo. 82601

January 17, 1975

The State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84111

Attn: Cleon B. Feight, Director

Re: Application of Mapco to drill two disposal wells
Mapco Allred WDW #2-16 and Birch WDW #2-35

Gentlemen:

As mentioned in telephone conversation between Mr. Feight and Mr. L. P. Works on January 17, 1975, Gulf Oil Company has no objection to Mapco drilling two water disposal wells. The wells in question are the Allred WDW #2-16, Sec. 16-1S-3W and the Birch WDW #2-35, Sec. 35-2S-5W both in Altamont Field, Duchesne Co., Utah.

Very truly yours,

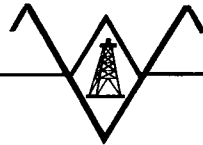


J. D. Richards

cc: Mapco
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102



A DIVISION OF GULF OIL CORPORATION



Flying Diamond Oil Corporation

1700 BROADWAY SUITE 900 DENVER, COLORADO 80202 PHONE (303) 573-6624

January 17, 1975

Mr. Cleon Feight
State of Utah
Natural Resources
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

Flying Diamond Oil Corporation has no objection to Mapco's application in compliance with Rule C-11, dated January 14, 1975, to drill two salt water disposal wells: (1) Allred WDW #2-16, Section 16, Township 1 South, Range 3 West; (2) Birch WDW #2-35, Section 35, Township 1 South, Range 5 West, both located in Duchesne County, Utah.

Yours very truly,

FLYING DIAMOND OIL CORPORATION

R. L. Flowers, Jr.
Drilling & Production Manager

RLF:jz

January 23, 1975

Mapco Inc.
Suite 320 Plaza West
1537 Avenue D
Billings, Montana

Re: Well No's:
Allred WDW 2-16
Sec. 16, T. 1 S, R. 3 W,
Birch WDW 2-35
Sec. 35, T. 1 S, R. 5 W,
Duchesne County, Utah

Gentlemen:

Please be advised that administrative approval under Rule C-II, General Rules and Regulations, is hereby granted for the drilling of the above referred to water disposal wells.

Said approval is, however, conditional upon adhering to the provisions of the Order Issued in Cause No. 139-9, outlined as follows:

- a) Applicant will take two samples of formation water by production swab tests, one from the upper interval and one from a lower interval.
- b) Applicant will notify this office prior to taking such samples in order that a member of our staff may be present to witness such tests, and take independent samples.
- c) Applicant will provide continuous monitoring of the salt water disposal well as to the volume of fluids injected and injection pressures.

Should you have any questions relative to the above, please do not hesitate to call or write.

Very truly yours,

CLEON B. FEIGHT
DIRECTOR

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐

OTHER Disposal Well

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MAPCO Inc.

3. ADDRESS OF OPERATOR

Suite 320 Plaza West
1537 Avenue D, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE NE (470.45' FNL & 1292.05' FEL)

At proposed prod. zone

Section 16, T. 1 S., R. 3 W., USM

Duchesne County, Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles N.E. Altamont

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

470.45'

16. NO. OF ACRES IN LEASE

120

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

238.9'

19. PROPOSED DEPTH

4600'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6315' G.L.

22. APPROX. DATE WORK WILL START*

February 20, 1975

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	Mixed	300'	As required
8-3/4"	7"	23#	4600'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including 3000 psi BOP assembly and any other required equipment. The casing will be pressure tested in order to protect oil, gas, and fresh water resources.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. D. Holliman Manager of Operations

SIGNED

J. D. Holliman

TITLE

Northern District

DATE

January 14, 1975

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

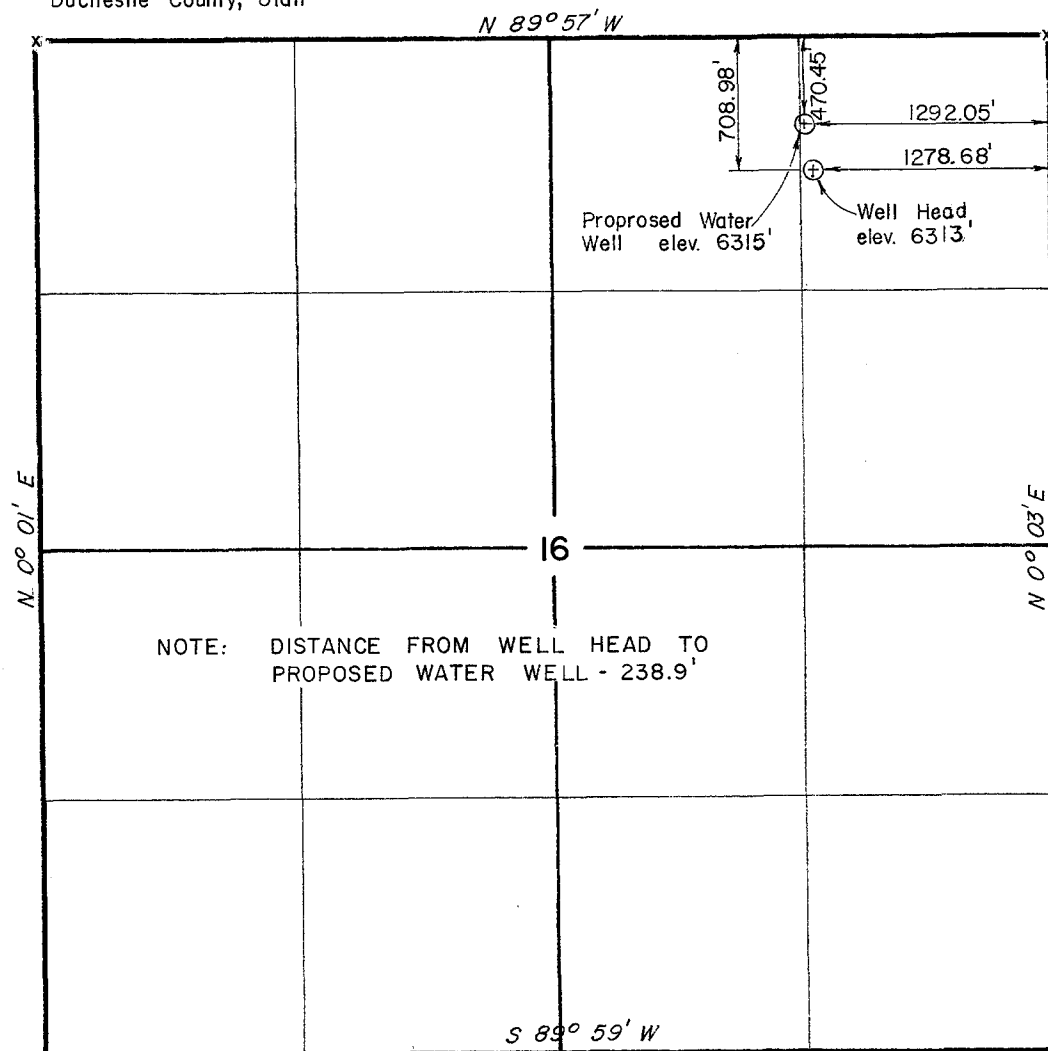
JAN 24 1975

MAPCO INCORPORATEDALLRED WELL

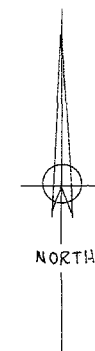
Well location, located as shown in
the NE 1/4, NE 1/4, Section 16,

T.1S., R.3W, U.S.B. & M.

Duchesne County, Utah



x = Section Corner Location

CERTIFICATE

I, Gilbert R. Horrocks, do hereby
certify that the above plat was
prepared from field notes of actual
surveys made by me or under my
supervision and that the same are
true and correct to the best of my
knowledge and belief.

Gilbert R. Horrocks
Gilbert R. Horrocks,
Registered Land Surveyor
Certificate No. 3825

**HORROCKS & ASSOCIATES**

CONSULTING ENGINEERS

Box 335, Roosevelt, Utah

Scale	1" = 1000'	Date	1/10/75
Drawn	GP	Approved	
Checked	RVH	Engineer	

MAPCO INCORPORATED

ALLRED WELL

Well location, located as shown in the NE 1/4, NE 1/4,
Section 16, T28, R3W, U.S. D. & M.,
Duchesne County, Utah

MAPCO, Allred WDW No. 2-16

NORTH

CERTIFICATE

I, Gilbert R. Horrocks, do hereby
certify that the above plat was
prepared from field notes of actual
survey made by me or under my
supervision and that the same are
true and correct to the best of my
knowledge and belief.

Gilbert R. Horrocks,
Registered Land Surveyor
Certificate No. 3825



HORROCKS & ASSOCIATES

CONSULTING ENGINEERS

Box 228, Monticello, Utah

Scale 1" = 1000'

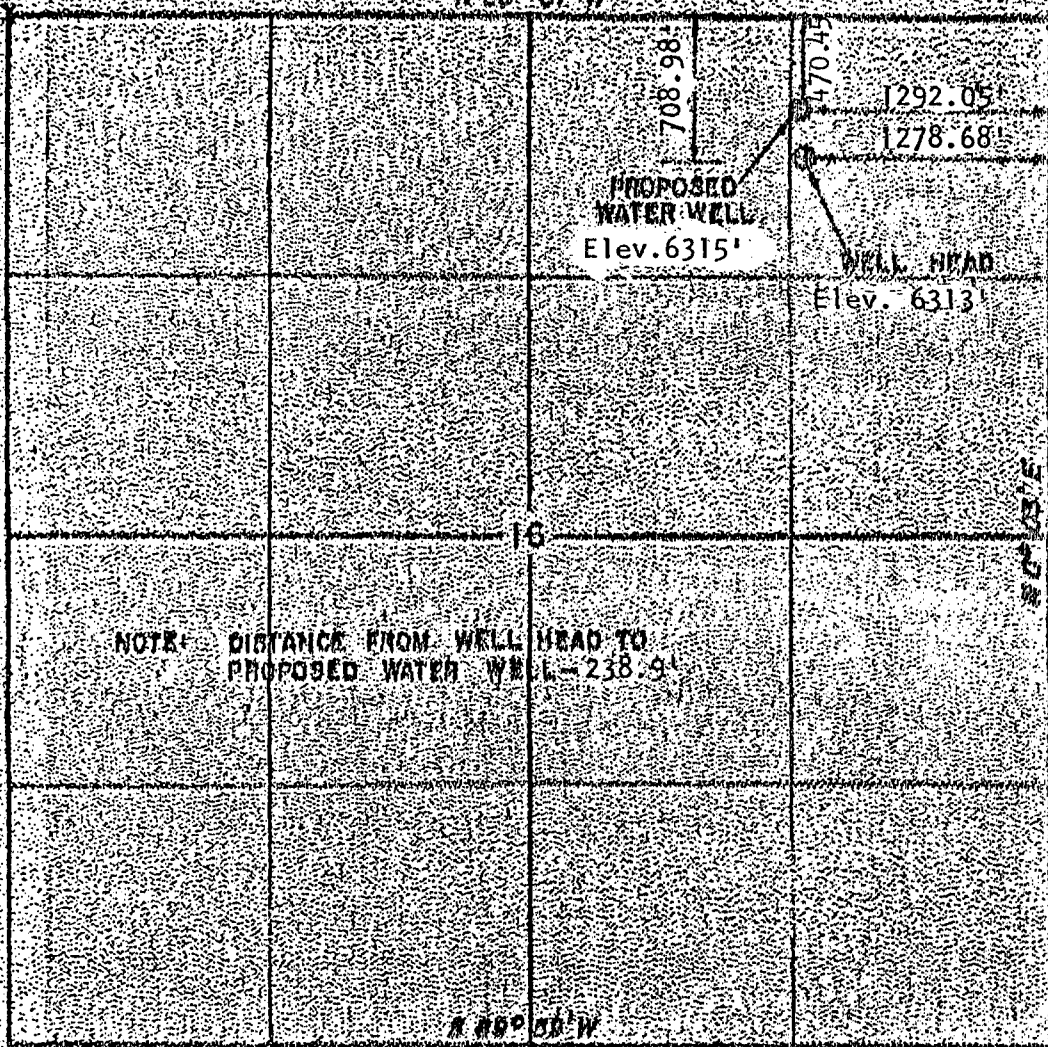
Date 1/8/70

Drawn by

Approved

Checked R.V.H.

Engineer



NOTE: DISTANCE FROM WELL HEAD TO
PROPOSED WATER WELL - 238.9'

X = Section Corner Location

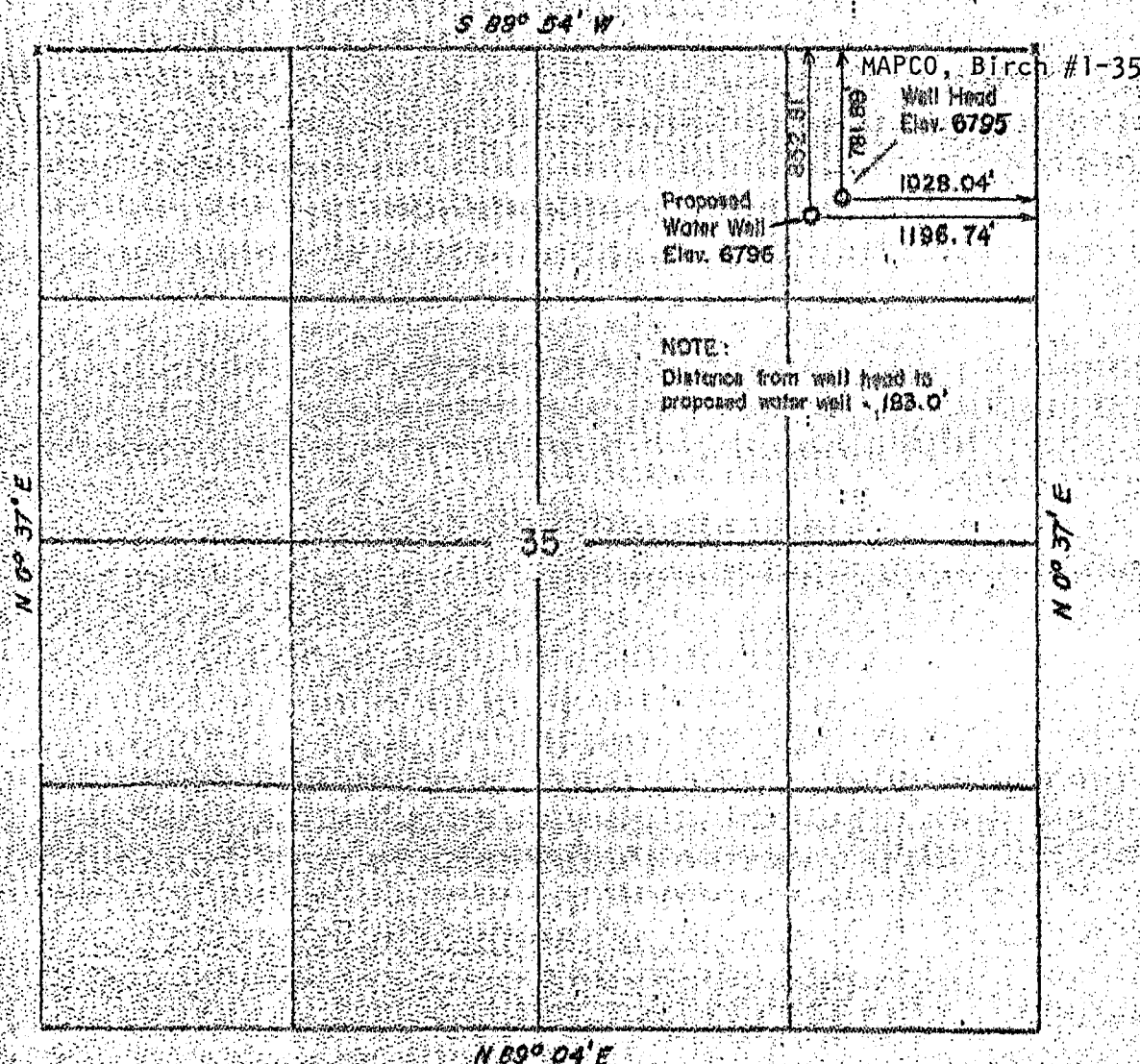
Exhibit "A-1"

MAPCO INCORPORATED

BIRCH WELL

Well location, located as shown in
the NE 1/4 of the NE 1/4, Section 35,
T.1S., R. 5 W., U.S.B. & M.
Duchenne County, Utah

MAPCO, Birch WDW No. 2-35



CERTIFICATE

I, Gilbert R. Horrocks, do hereby certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Gilbert R. Horrocks,
Registered Land Surveyor
Certificate No. 3825



x - Section Corner Location

HORROCKS & ASSOCIATES
Consulting Engineers

Box 335

Roosevelt, Utah

SCALE 1" = 1000'

DATE Jan. 1975

DRAWN PDW

CHECKED RVH

Exhibit "A-2"

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Birch

9. WELL NO.

WDW 2-35

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Section 35

T. 1 S., R. 5 W., USM

12. COUNTY OR PARISH 13. STATE

Duchesne

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐

OTHER Disposal Well

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MAPCO Inc.

3. ADDRESS OF OPERATOR

Suite 320 Plaza West
1537 Avenue D, Billings, Montana

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NE NE (852.81' FNL & 1196.74' FEL)

At proposed prod. zone

Section 35, T. 1 S., R. 5 W., USM
Duchesne County, Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

7 miles west of Altamont

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

852.81

16. NO. OF ACRES IN LEASE

40

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

183'

19. PROPOSED DEPTH

4650'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6796' G.L.

22. APPROX. DATE WORK WILL START*

January 22, 1975

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	Mixed	300'	As required
8-3/4"	7" & 7-5/8"	Mixed	4650'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including 3000 psi BOP assembly and any other required equipment. The casing will be pressure tested in order to protect oil, gas, and fresh water resources.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. D. Holliman Manager of Operations

J. D. Holliman

TITLE

Northern District

DATE

January 14, 1975

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

THE STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO.	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Disposal Well <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR MAPCO Inc.			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102			8. FARM OR LEASE NAME Allred	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface NE NE (470.45' FNL & 1292.05' FEL) Section 16, T. 1 S., R. 3 W., USM Duchesne County, Utah			9. WELL NO. WDW 2-16	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 miles N.E. Altamont			10. FIELD AND POOL, OR WILDCAT Altamont	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. line, if any) 470.45'			11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Section 16 T. 1 S., R. 3 W., USM	
16. NO. OF ACRES IN LEASE 120			12. COUNTY OR PARISH Duchesne	
17. NO. OF ACRES ASSIGNED TO THIS WELL 640			13. STATE Utah	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 238.9'			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6315' G.L.			22. APPROX. DATE WORK WILL START* February 20, 1975	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	Mixed	300'	As required
8-3/4"	7"	23#	4600'	As required

This well will be drilled from surface to total depth with rotary drilling equipment, including 3000 psi BOP assembly and any other required equipment. The casing will be pressure tested in order to protect oil, gas, and fresh water resources.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

JAN 23 1975

DATE

BY *B. T. Taylor*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *J. D. Holliman* J. D. Holliman TITLE Manager of Operations Northern District DATE January 14, 1975

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE

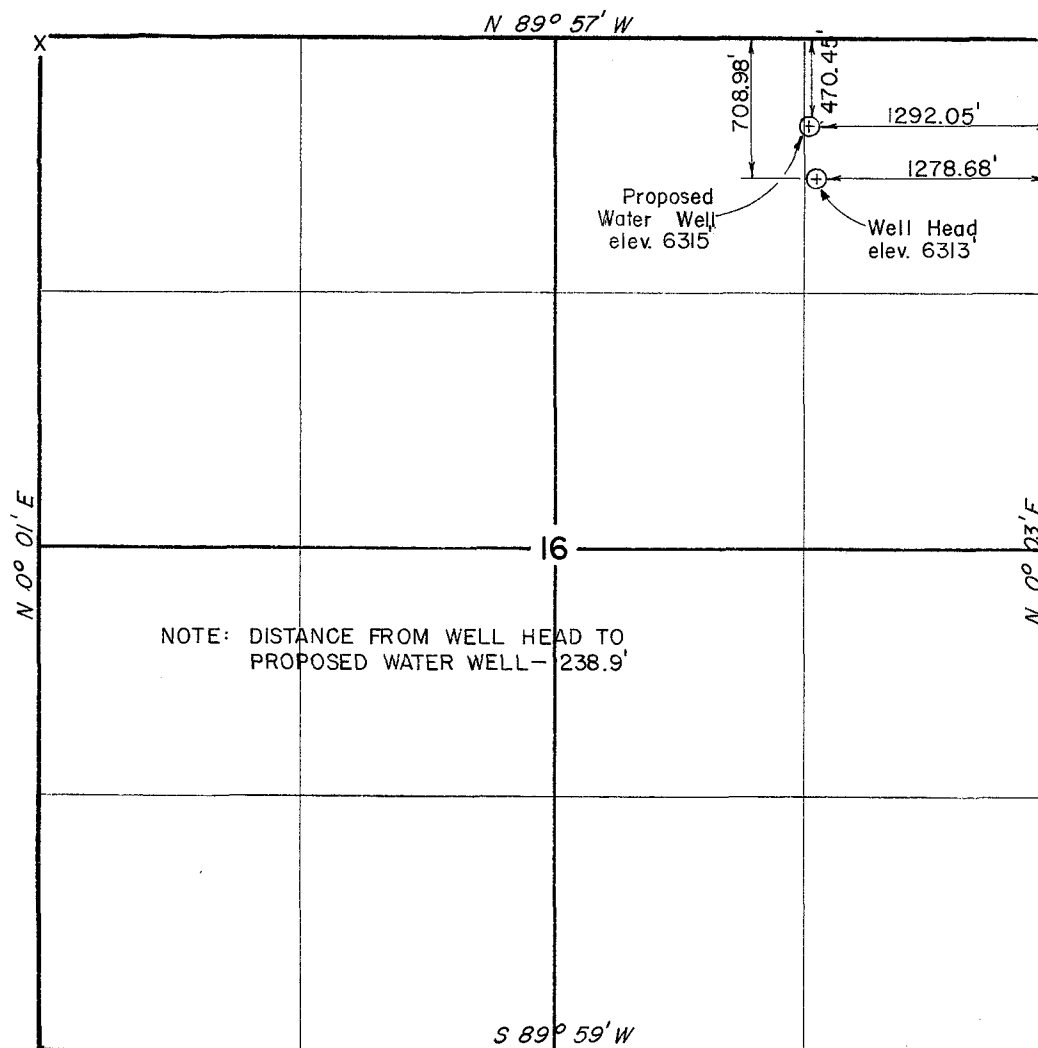
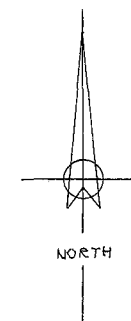
CONDITIONS OF APPROVAL, IF ANY:

JAN 24 1975

MAPCO INCORPORATED

ALLRED WELL

Well location, located as shown
in the NE 1/4, NE 1/4, Section 16,
T.1 S, R.3 W, U.S.B. & M.
Duchense County, Utah

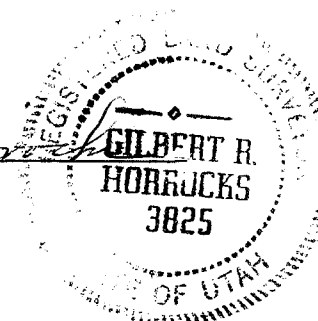


X = Section Corner Location

CERTIFICATE

I, Gilbert R. Horrocks, do hereby
certify that the above plat was
prepared from field notes of actual
surveys made by me or under my
supervision and that the same are
true and correct to the best of my
knowledge and belief.

Gilbert R. Horrocks
Gilbert R. Horrocks
Registered Land Surveyor
Certificate No. 3825



HORROCKS & ASSOCIATES CONSULTING ENGINEERS	
Box 335	Roosevelt, Utah
scale 1" = 1000'	date 1/10/75
drawn GP	approved
checked RVH	engineer



Telegram

SLA060(1455)(1-023439A017)PD 01/17/75 1453

TLX CHEVRON DVR
ZCZC 8 PD DENVER COLO JAN 17TH
PMS MR. CLEON B. FEIGHT
DIRECTOR OF OIL & GAS CONSERVATION
STATE OF UTAH
SALT LAKE CITY, UTAH

466-4455

466-4455

CC: MAPCO, INC.
SUITE 320 PLAZA WEST
1537 AVENUE D
BILLINGS MONTANA

THIS IS TO ADVISE THAT CHEVRON OIL COMPANY HAS NO OBJECTION TO

SF-1201 (R5-69)



Telegram

THE DRILLING BY MAPCO OF TWO SALT WATER DISPOSAL WELLS,
MAPCO ALLRED WDW2-16 AND MAPCO BIRCH WSW 2-35, BOTH TO BE
LOCATED IN THE ALTAMONT FIELD.

W.B. JACKSON
CHEVRON OIL COMPANY
WESTERN DIVISION
DENVER, COLORADO

BEFORE THE BOARD OF OIL AND GAS CONSERVATION
DEPARTMENT OF NATURAL RESOURCES
in and for the STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF MAPCO)
INC. FOR ADMINISTRATIVE APPROVAL, PURSUANT)
TO RULE C-11, AUTHORIZING THE DRILLING OF)
TWO WATER DISPOSAL WELLS AND THE UNDERGROUND)
DISPOSAL OF WATER PRODUCED WITH OIL FROM)
WELLS IN THE ALTAMONT FIELD, DUCHESNE)
COUNTY, UTAH)

APPLICATION

Applicant, MAPCO INC., in support of this application,
respectfully shows to the Board of Oil and Gas Conservation of the State of
Utah, as follows:

1. Applicant is a Delaware corporation duly authorized to transact
business in the State of Utah.

2. Applicant is an oil and gas operator in the Altamont Field,
Duchesne County, Utah.

3. There are many producing oil and gas wells in the Altamont
Field which are producing in association with oil and gas, salt water,
brackish water or other water unfit for domestic, livestock, irrigation
or other general uses. Unless appropriate disposal is provided, possible
damage may occur to surface estates and potable surface waters.

4. Applicant proposes to dispose of such produced water by
injection underground into the lower portion of the Duchesne River-Uintah
formations underlying the proposed disposal wells.

5. Applicant proposes to drill two salt water disposal wells
to be designated Allred WDW No. 2-16, located 470.45 feet from the north
line and 1292.05 feet from the east line of Section 16, Township 1 South,
Range 3 West, U.S.B.&M., and Birch WDW No. 2-35, located 852.81 feet from
the north line and 1196.74 feet from the east line of Section 35, Township
1 South, Range 5 West, U.S.B.&M., both in Duchesne County, Utah. The location
of the proposed disposal wells and all oil and gas wells, including abandoned
and drilling wells and dry holes are shown on Exhibits "A-1" and "A-2"
attached hereto and hereby made a part hereof. Also attached hereto and made
a part hereof is Exhibit "B", the names of lessees of record within one-half
mile of the proposed disposal wells.

6. The Duchesne River-Uintah formations are comprised predominantly of clastic sandstones and shales, with the numerous porous sandstones containing waters of varying degrees of salinity. The above formations occur at the surface at the proposed well sites, and based on log analysis of the nearest producing wells, the MAPCO Allred No. 1-16 and the MAPCO Birch No. 1-35, extend to a depth of approximately 7200 feet and 6300 feet, respectively.

7. Attached hereto and hereby made a part hereof as Exhibits "C-1" and "C-2" are reproductions of the pertinent portion of the logs of the MAPCO Allred No. 1-16, and the MAPCO Birch No. 1-35, which are submitted as typical and in lieu of the logs of the proposed disposal wells to be drilled.

8. Attached hereto and hereby made a part hereof as Exhibits "D-1" and "D-2" are reproductions of the Applications for Permit to Drill (Form OGC-1a) for the two disposal wells. These applications contain the proposed casing program, and the proposed method for testing casing before use of the disposal wells.

9. The proposed injection water is that which is produced along with oil and gas from the Green River-Wasatch formations beneath oil and gas wells in the Altamont Field, Utah. The estimated minimum amount of injection per well will be 200 barrels of water per day, increasing to an estimated maximum of 5,000 barrels per day due to additional wells and normal water cut increase. The proposed subsurface intervals to be injected into in the Allred WDW No. 2-16 are from approximately 3500 feet to 4600 feet, and the intervals in the Birch WDW No. 2-35 are from approximately 3700 feet to 4600 feet. Applicant believes the Duchesne River-Uintah formations will adequately take and receive the estimated maximum volumes of produced water.

10. Applicant believes that produced water to be disposed of and formation water in the Duchesne River-Uintah formations at the proposed injection intervals are both unfit for domestic, livestock, irrigation or other general uses. On the Allred WDW No. 2-16, Applicant will take two samples of formation water by production swab tests, one from the subsurface interval from 3500 to 3800 feet and the other test will be taken below 3800 feet over an interval to be selected by Applicant. On the Birch WDW No. 2-35, Applicant will take similar samples; one from the subsurface interval from 3700 to 4000

feet, and the other test will be taken below 4000 feet over an interval to be selected by Applicant. Applicant will notify the Director, Division of Oil and Gas Conservation, prior to taking such samples and conducting such tests in order that the Director or his staff may witness the tests and take independent samples.

11. Applicant proposes to provide continuous monitoring of the salt water disposal well as to volume of fluids injected and injection pressures, and such information will be recorded or logged.

12. Names and addresses of lessees of record within one-half mile of the proposed disposal wells are shown on Exhibit "B". All lessees were notified by registered mail of the filing of this application.

WHEREFORE, Applicant respectfully requests that the Board of Oil and Gas Conservation, pursuant to Rule C-11, approve administratively the drilling of the disposal well and the underground disposal of water produced with oil all as more fully set forth herein.

Dates this 14th day of January, 1975.

Respectfully submitted,

MAPCO INC.

By

J. D. Holliman

J. D. Holliman
Manager of Operations
Northern District
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102

STATE OF MONTANA

COUNTY OF YELLOWSTONE

J. D. Holliman, being first duly sworn on oath, deposes and says that he is Manager of Operations for the Northern District of MAPCO INC.; that he has read the foregoing application and knows the contents thereof; and that the matters and things therein stated are true.

James D. Holliman

Subscribed and sworn to before me this 14th day of January, 1975.

Lucile P. Robinson

Notary Public
In and for Yellowstone County, Montana

My Commission Expires:

8-29-75

Schlumberger

DUAL INDUCTION - LATERAL LOG
WITH LINEAR CORRELATION LOG

"C" 1"

COUNTY DUCHESNE
FIELD or LOCATION ALTAMONT
WELL ALLRED #1-16
COMPANY MAPCO INC.

COMPANY MAPCO INCORPORATED

WELL ALLRED #1-16

FIELD ALTAMONT

COUNTY DUCHESNE STATE UTAH

Location. API Serial No.
NE NE (700' FLN-1280 FEL)

Sec. 16 Twp. 1S Rge. 3W

Other Services:

FDC-GR
CNL-GR
BHC-GR

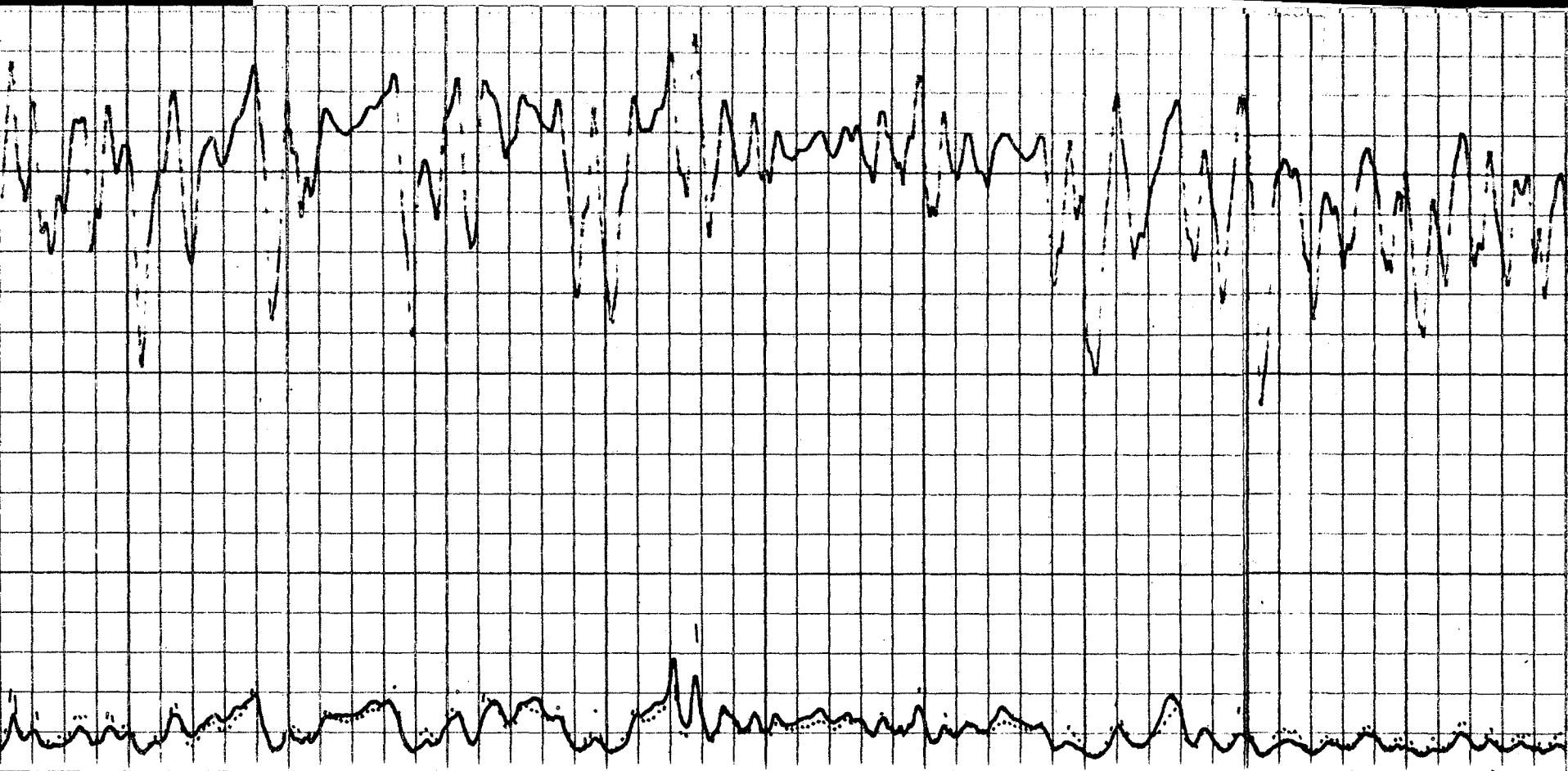
Permanent Datum: GL ; Elev.: 6319
Log Measured From KB 21 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 6340

D.F. ----
G.L. 6319

Date	11-11-73	1-10-74		
Run No.	ONE	TWO		
Depth-Driller	13349	16067		
Depth-Logger	13341	16046		
Btm. Log Interval	13335	16044		
Top Log Interval	2995	13326		
Casing-Driller	9-5/8 @ 3005	9-5/8 @ 13336	@	@
Casing-Logger	2995	13326		
Bit Size	8-3/4	6-1/2		
Type Fluid in Hole	FGM	GEL-CHEM-LIME		
Fluid Level	FULL	FULL		
Dens.	11.2	48	15.2	70
pH	10.8	10 ml	12.9	4.0 ml
Source of Sample	MUDPIT	MUDPIT		
R _m @ Meas. Temp.	.904 @ 70°F	1.7 @ 75°F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.746 @ 70°F	.67 @ 75°F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.3 @ 70°F	3.5 @ 75°F	@ °F	@ °F
Source: R _{mf} R _{mc}	MEAS. CAL	M ² C		
R _m @ BHT	0.33 @ 182°F	.58 @ 225°F	@ °F	@ °F
Time Since Circ.	14 HRS.	10 HRS.		
Max. Rec. Temp.	182 °F	226 °F	°F	°F
Equip. Location	7683 VERNAL	7674 VERNAL		
Recorded By	LANGLEY	YATCO/K/SPARTH		
	EVERETT-UDCAN	EVERETT		





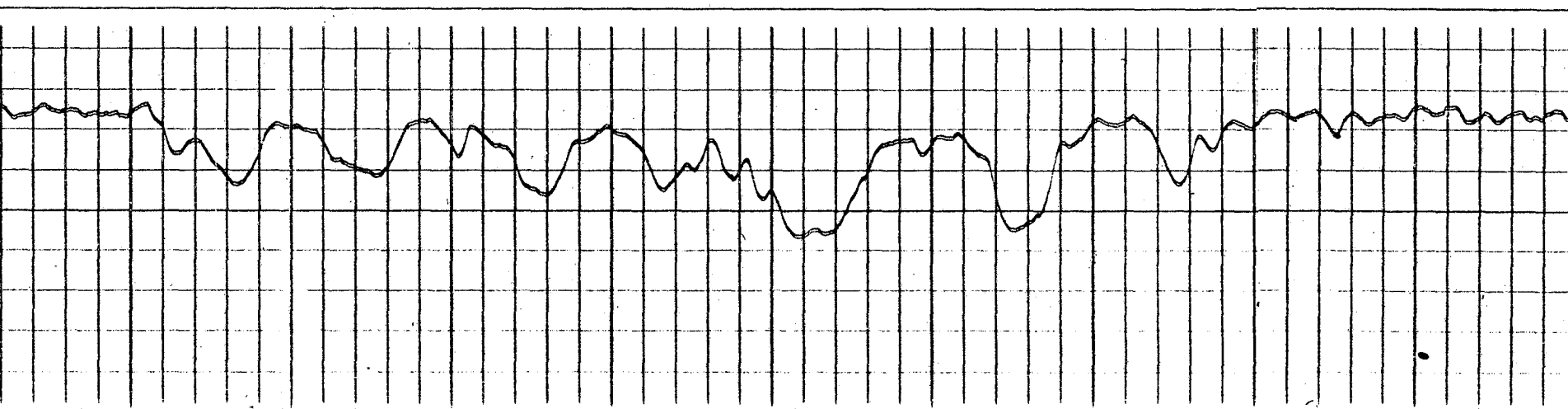
3900

4000

4100

4200

4300



C
FIELD or LOCATION ALTAMONT

maner
g Mea
lling A
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n No.

ph-Di
ph-Lo
n. Log
o Log
king-D

ing-Lc
Size

oe Fluid

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m @ A

mf @ M

mc @ N

ource: R

m @ B

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up. Lc

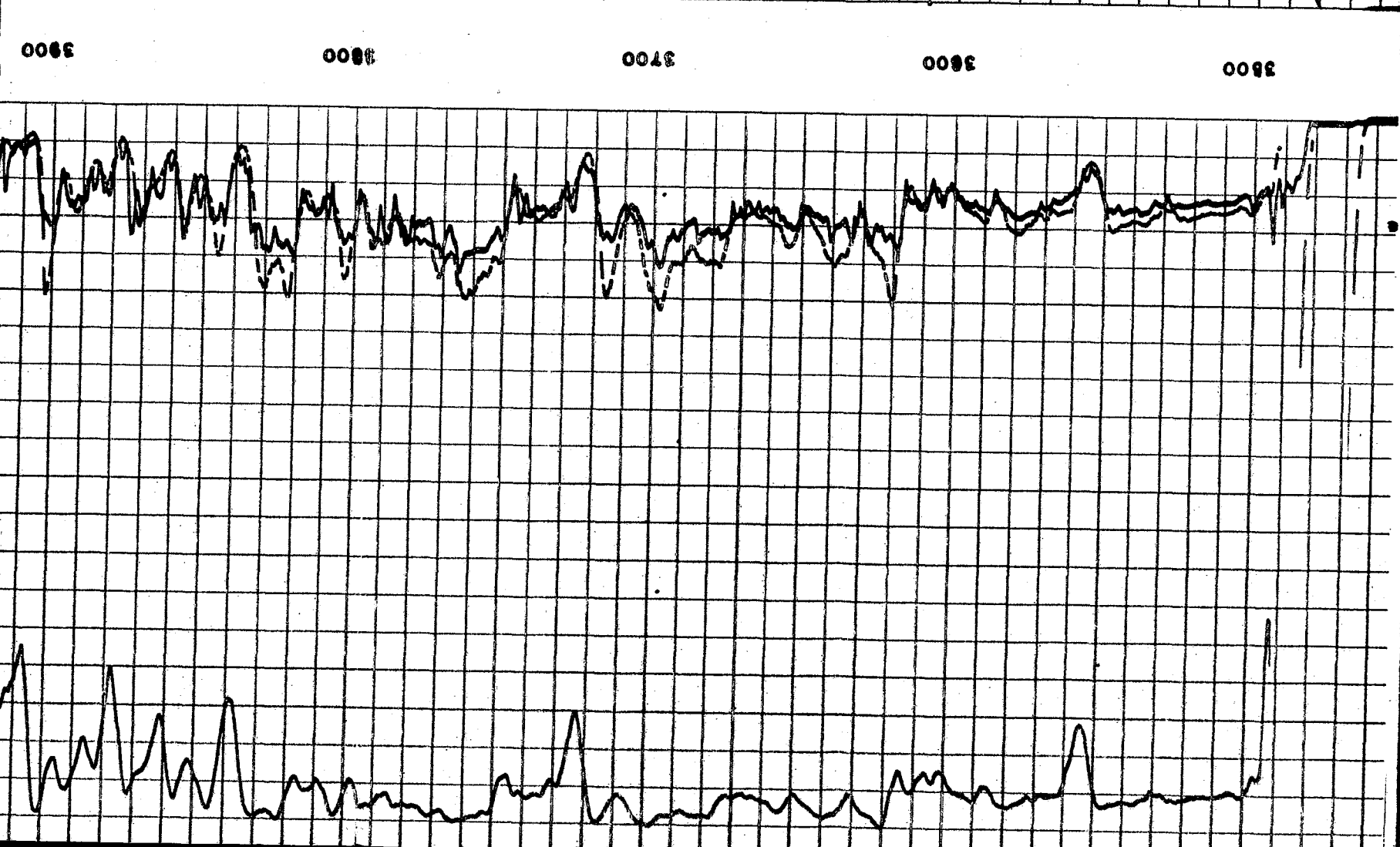
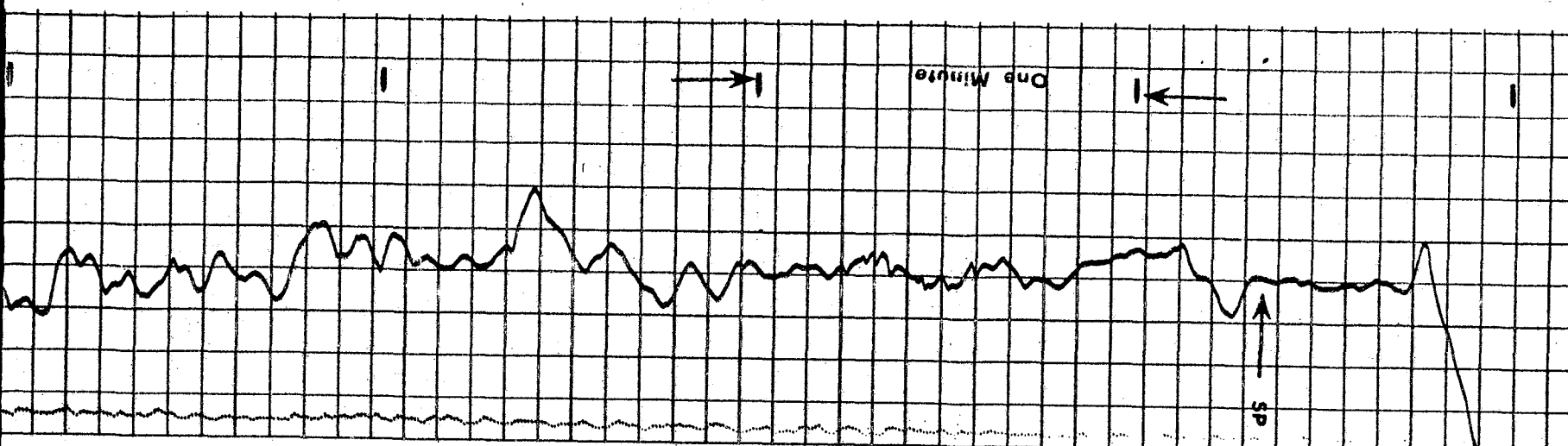
orded E

4400

4500

4600

4700



Dual Induction Focused Log

WITH LINEAR CORRELATION LOG

2-2"

FILE NO. R-118

COMPANY MAPCO INCORPORATED

WELL BIRCH NO. 1-35

FIELD ALTAMONT

COUNTY DUCHESNE STATE UTAH

LOCATION:

NE NE
757 FNL 1024 FEL
SEC 35 TWP 1S RGE 5W

Other Services

BHC-AL, GR
CDLC-GR
CDN-GR

Permanent Datum GROUND LEVEL Elev. 6797

Log Measured from KELLY BUSHING 17 Ft. Above Permanent Datum

Drilling Measured from KELLY BUSHING

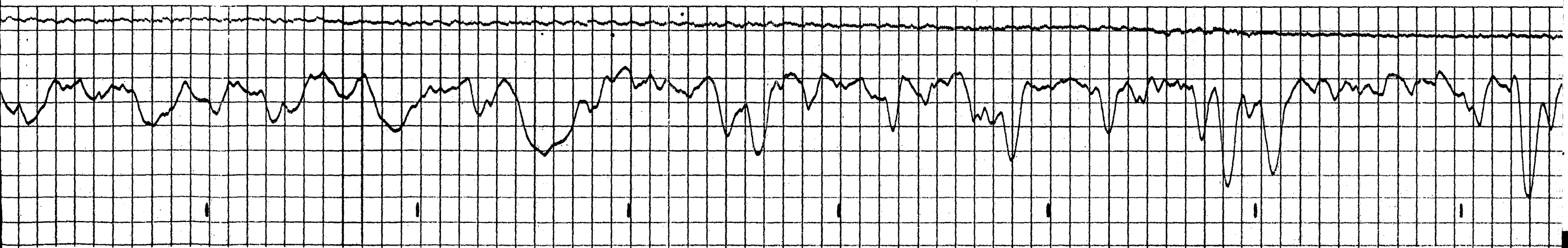
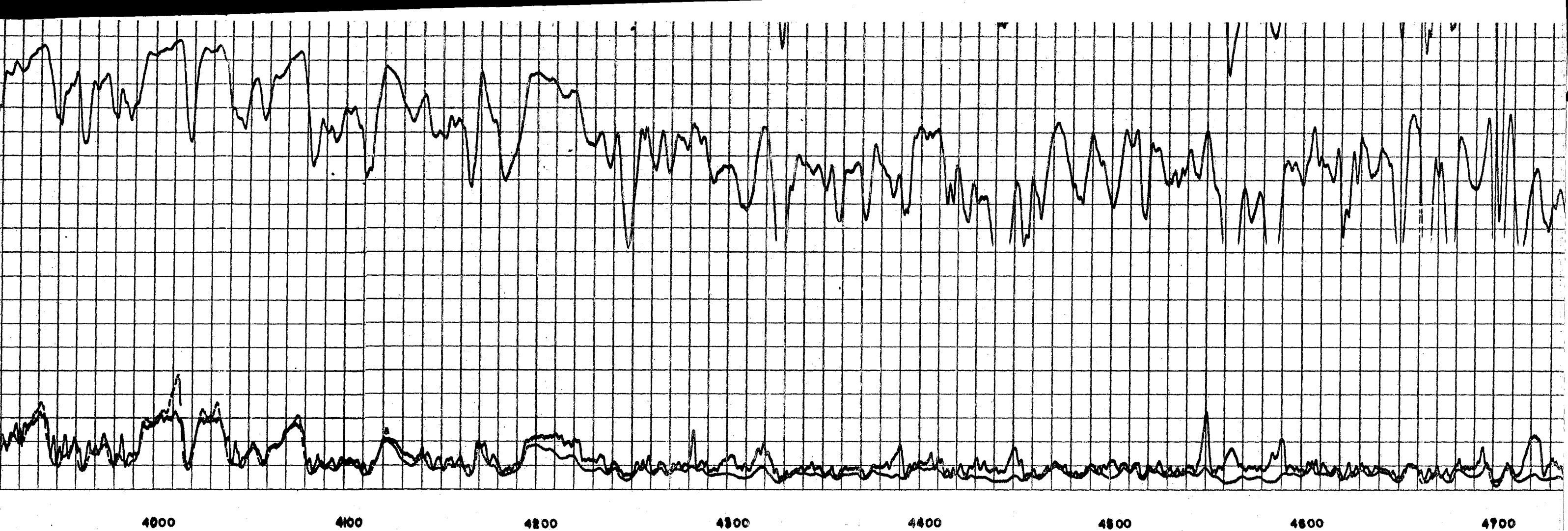
Elevations:

KB 6814

DF

GL 6797

Date	11-4-73	1-4-74
Run No.	ONE	TWO
Depth—Driller	12905	15,685
Depth—Logger	12905	15,571
Bottom Logged Interval	12903	15,569
Top Logged Interval	3484	12,862
Casing—Driller	9 5/8@3482	7 5/8@12,896
Casing—Logger	3484	12,862
Bit Size	8 3/4	6 1/2
Type Fluid in Hole	CHEM-GEL	CHEM-GEL
	@	DRISCOSE
Density and Viscosity	9.3 45	14.4 64
pH and Fluid Loss	10.5 6.2 cc	10.2 2.4 cc
Source of Sample	FLOWLINE	CIRCULATED
Rm @ Meas. Temp.	1.26 @ 61 °F	2.3 @ 72 °F
Rmf @ Meas. Temp.	1.08 @ 62 °F	1.7 @ 70 °F
Rmc @ Meas. Temp.	1.62 @ 64 °F	2.8 @ 72 °F
Source of Rmf and Rmc	M M	M M
Rm @ BHT	43 @ 180 °F	77 @ 216 °F
Time Since Circ.	15 HRS.	16 HRS.
Max. Rec. Temp. Deg. F.	180 °F	216 °F
Equip. No. and Location	6070 RUSVLT	6089 RUSVLT
Recorded By	MCCONNELL	MARTIN-WILCOX
Witnessed By	MR. HOGAN, MR. EVERTZ	MR. HOGAN





Telegram

SLA086(1630)(2-031830E017)PD 01/17/75 1629

ICS IPMBNGZ CSP

3036234158 TDBN DENVER CO 68 01-17 0429P EST

PMS CLEON B FREIGHT, DIRECTOR, UTAH DIVISION OF OIL AND GAS CONSERVAT
ION, PLS DELIVER ASAP, DLR

1588 WEST NORTH TEMPLE

SALT LAKE CITY UT 84116

RE: APPLICATION IN COMPLIANCE WITH RULE C-11 DIVISION OF OIL
AND GAS CONSERVATION STATE OF UTAH FOR MAPCO, BIRCH WDW2-35

SECTION 35- TOWNSHIP 1 SOUTH- RANGE 5 WEST ALTAMONT FIELD DUCHESNE
COUNTY UTAH.

THIS IS TO INFORM YOU THAT WALTER DUNCAN OIL PROPERTIES HAS
NO OBJECTION TO THE DRILLING OF SUBJECT WELL FOR WATER DISPOSAL
PURPOSES

WALTER DUNCAN OIL PROPERTIES- WALTER, RAYMOND T. AND VINCENT
J. DUNCAN BY DALE E HARRISON LAND MGR

SF-1201 (R5-89)



Telegram

SLA025(1236)(2-016566E017)PD 01/17/75 1236

ICS IPMBNGZ CSP

7132253505 TDBN HOUSTON TX 36 01-17 1236P EST

PMS STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OIL
AND GAS CONSERVATION, ATTN CLEON B FEIGHT DIRECTOR, DLR

1588 W.N. TEMPLE

SALT LAKE CITY UT 84116

BARBER OIL EXPLORATION INC HAS NO OBJECTIONS TO MATCO DRILLING
THE BELOW LISTED SALT WATER DISPOSAL WELLS IN THE ALTA MONTE
FIELD DUCHESNE COUNTY UTAH NUMBER 1. ALLRED WDW-2-16. 2. BIRCH
WDW-2-35

W P GOODSON VICE PRESIDENT
NNNN

SF-1201 (R5-89)



Telegram

SLA094(1707)(2-034743E017)PD 01/17/75 1707

ICS IPMBNGZ CSP

3032929920 TDBN DENVER CO 42 01-17 0507P EST

PMS CLEON B FEIGHT DIRECTOR, DLR

STATE OF UTAH DIV OF OIL AND GAS CONSERVATION 1588 WEST NORTH
TEMPLE

SALT LAKE CITY UT 84116

PLEASE BE ADVISED THAT TENNECO OIL COMPANY HAS NO OBJECTIONS
TO NAPCO'S APPLICATION DATED JANUARY 14 1975 TO DRILL AND COMPLETE
THE WDW NUMBER 2-16 ALLRED 16-1S-3W, AND WDW NUMBER 2-35 BIRCH
35-1S-5W DUCHESNE COUNTY, UTAH AS STATED IN THIS APPLICATION

D D MYERS DIV PRODUCTION MGR TENNECO OIL CO
NNNN

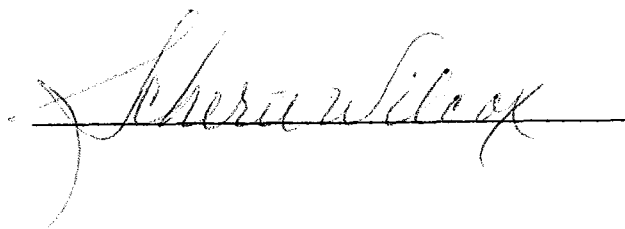
SF-1201 (R5-89)

TELEGRAM

January 21, 1975

From: Altex Oil Company
Cecil Wall, President
Vernal, Utah

Altex has no objection to Mapco's application dated 1-14-75 to drill and complete water disposal wells at Allred WDW 2-16, Sec. 16, T. 1 S, R. 3 W,; and Birch WDW 2-35, Sec. 35, T. 1 S, R. 5 W, Duchesne County.

A handwritten signature in cursive script, appearing to read "Cecil Wall", is written over a horizontal line.



Telegram

SLB025(1142)(1-01083 2A0 22008)PD 01/22/75 1129

TLX SHELL PLZ HOU

ZCZC 016 HOUSTON TX JAN 22

PMS UTAH OIL AND GAS CONSERVATION BOARD

ATTN CLEON B FEIGHT

1588 WEST NORTH TEMPLE

SALT LAKE CITY UT *84116*

SHELL CONSENTS TO MAPCO-S DRILLING OF THE MAPCO - ALLRED

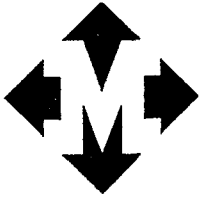
WDW 2-16 LOCATED IN SECTION 16 - T1S - R3W AND THE MAPCO-

BIRCH WDW 2-35 IN SECTION 35 - T1S - R5W - DUCHESNE COUNTY UTAH

HWA R J NELSON SHELL OIL CO

NNNN

<i>328-5771</i>	
<i>By DW</i>	<i>AT 1055 PM</i>
<i>Shirley</i> <i>med</i>	



mapco
INC.

PRODUCTION DIVISION

January 28, 1975

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Scheree Wilcox

Re: Well Survey Plats for
MAPCO, Allred No. 2-16 WDW
Sec. 16, T. 1 S., R. 3 W.,
and
MAPCO, Birch No. 2-35 WDW
Sec. 35, T. 1 S., R. 5 W.,
Duchesne County, Utah

Gentlemen:

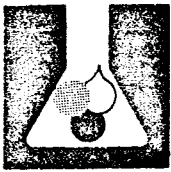
Enclosed are three (3) copies each original Well Survey Plats
for the captioned wells. These should be attached to the Applications
we submitted on January 14, 1975.

Very truly yours,

MAPCO INC.

(Mrs.) Agnes W. Model
Secretary to J. D. Holliman

Enclosures



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2198
SAMPLE TAKEN _____
SAMPLE RECEIVED 4-24-75
RESULTS REPORTED 5-2-75

SAMPLE DESCRIPTION
COMPANY Mapco Production Inc. LEASE Allred WDW FIELD NO. _____
WELL NO. 2-16
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS

ZONE # 2

SAMPLE TAKEN BY _____

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0098 pH 7.95 RES. 0.50 OHM METERS @ 77°F

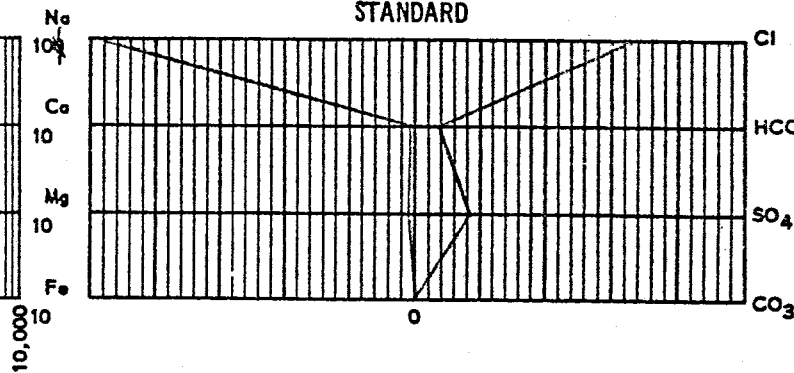
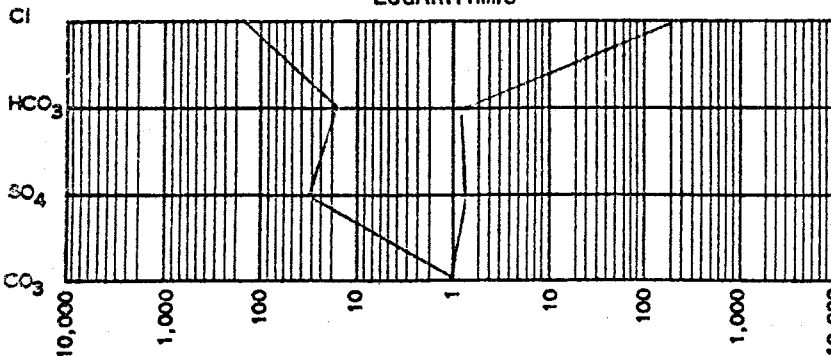
TOTAL HARDNESS 147.54 mg/L as CaCO₃ TOTAL ALKALINITY 1104.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg. L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	22.8	1.14		
MAGNESIUM - Mg ++	21.7	1.78		
SODIUM - Na +	5600.0	243.48		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	0.72	0.03	246.40	
BICARBONATE - HCO ₃ -	1104.0	18.10		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	2005.	41.77		
CHLORIDE - CL -	5847.7	164.72	224.59	
TOTAL DISSOLVED SOLIDS	11178.			

MILLEQUIVALENTS PER LITER

LOGARITHMIC

STANDARD

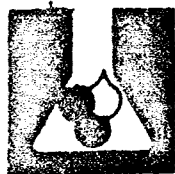


ANALYST _____

CHECKED _____

JUN 23 1975

Certificate of Analysis



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

DATE: April 9, 1975

CLIENT: Mapco Production Inc.
P.O. Box 1386
Roosevelt, Utah 84066

SAMPLE NUMBER: W-2078 (Allred 216 6000)

DATE RECEIVED: 4-8-75

SUBMITTED BY: Steve Hale

SAMPLES ANALYZED FOR: TDS & Chloride

RESULTS:

TDS - 10,040

Chloride - 4353

REMARKS: Zone #1

BY _____

RECEIVED
FEB 2 1976
DIVISION OF OIL
& MINING
OIL & GAS CONSERVATION COMMISSION

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Disposal

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

MAPCO Inc.

3. ADDRESS OF OPERATOR

Suite 320 Plaza West
1537 Avenue D, Billings, Montana 59102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

NE NE (470.45' FNL & 1292.05' FEL)

At top prod. interval reported below

Section 16, T. 1 S., R. 3 W.,

At total depth

Duchesne County, Utah

14. PERMIT NO.

43-013-30361

DATE ISSUED

1-23-75

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Allred

9. WELL NO.

Salt Water
WDW 2-16

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 16

T. 1 S., R. 3 W.,

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

15. DATE SPUDDED

3-1-75

16. DATE T.D. REACHED

3-13-75

17. DATE COMPL. (Ready to prod.)

4-12-75

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

6315' G.L. - 6325' K.B.

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4640'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

to 4640'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Injection Interval (Perforated): 3593-4424'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Schlumberger BHC Sonic-GR: 4634-316

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	40 & 36	321'	12- 1/4"	200 sx class Gw/3% CaCl	
7"	23	4640'	8- 3/4"	160 sx 50/50 Poz w/2% gel	
				& 500 sx 65/35 Pox w/2% gel	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	3493'	3493'

31. PERFORATION RECORD (Interval, size and number)

See attachment

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (<i>Flowing, gas lift, pumping—size and type of pump</i>)				WELL STATUS (<i>Producing or shut-in</i>)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Perforation Record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Manager of Operations

SIGNED

J. D. Holliman

TITLE

Northern District

DATE

1-27-76

*(See Instructions and Spaces for Additional Data on Reverse Side)

Attachment for Form OGCC-3, Perforation Record, for

MAPCO, WDW Allred 2-16
Section 16, T. 1 S., R. 3 W.
Duchesne County, Utah

Shot the following intervals (BHC Sonic - GR depths) with a strip
jet with 2 shots/foot 28 gram jets:

4422-4424	3915-3917
4414-4420	3910-3913
4406-4410	3778-3779
4391-4394	3775-3777
4387-4389	3771-3773
4380-4385	3759-3767
4376-4378	3754-3757
4317-4318	3715-3721
4311-4316	4684-4686
4241-4243	3651-3653
4230-4238	3639-3649
4069-4073	3615-3617
4010-4022	3607-3612
3969-3976	3603-3605
4936-3934	3599-3601
3919-3923	3596-3598
	3593-3594

AUGUST 2, 1976

MAPCO, INC.
Suite 320- Plaza West
1537 Avenue "D"
Billings, Montana 59101

Gentlemen:

Attached hereto, is a copy of a memo relative to a recent well inspection.

Please read the memo carefully and make all necessary changes and/or repairs of the equipment as indicated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

PLD/tlb

Enclosure

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <u>Disposal</u>						5. LEASE DESIGNATION AND SERIAL NO.	
2. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <u> </u>						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR MAPCO Inc.						7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Suite 320 Plaza West 1537 Avenue D, Billings, Montana 59102						8. FARM OR LEASE NAME Allred	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface NE NE (470.45' FNL & 1292.05' FEL) At top prod. interval reported below Section 16, T. 1 S., R. 3 W., At total depth Duchesne County, Utah						9. WELL NO. WDW 2-16	
14. PERMIT NO. 43-013-30361 DATE ISSUED 1-23-75						12. COUNTY OR PARISH Duchesne	
						13. STATE Utah	
15. DATE SPUNDED 3-1-75		16. DATE T.D. REACHED 3-13-75		17. DATE COMPL. (Ready to prod.) 4-12-75		19. ELEV. CASINGHEAD 6315' G.L. - 6325' K.B.	
20. TOTAL DEPTH, MD & TVD 4640'		21. PLUG BACK T.D., MD & TVD		22. IF MULTIPLE COMPL. HOW MANY*		23. INTERVALS DRILLED BY → to 4640'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Injection Interval (Perforated): 3593-4424'						25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger BHC Sonic-GR: 4634-316						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
9-5/8"	40 & 36	321'	12- 1/4"	200 sx class Gw/3% CaCl			
7"	23	4640'	8- 3/4"	160 sx 50/50 Poz w/2% gel			
				8 500 sx 65/35 Pox w/2% gel			
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	3493'	3493'
31. PERFORATION RECORD (Interval, size and number) See attachment				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED			
33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Perforation Record							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>J. D. Holliman</u>				TITLE <u>Manager of Operations</u>		DATE <u>1-27-76</u>	
				TITLE <u>Northern District</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

Attachment for Form OGCC-3, Perforation Record, for

MAPCO, WDW Allred 2-16
Section 16, T. 1 S., R. 3 W.
Duchesne County, Utah

Shot the following intervals (BHC Sonic - GR depths) with a strip
jet with 2 shots/foot 28 gram jets:

4422-4424	3915-3917
4414-4420	3910-3913
4406-4410	3778-3779
4391-4394	3775-3777
4387-4389	3771-3773
4380-4385	3759-3767
4376-4378	3754-3757
4317-4318	3715-3721
4311-4316	684-7686
4241-4243	3651-3653
4230-4238	3639-3649
4069-4073	3615-3617
4010-4022	3607-3612
3969-3976	3603-3605
<u>3936-3934</u>	3599-3601
<u>3919-3923</u>	3596-3598
	3593-3594

DEC 15 1978



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

I. DANIEL STEWART
Chairman

CHARLES R. HENDERSON
JOHN L. BELL
THADIS W. BOX
C. RAY JUVELIN

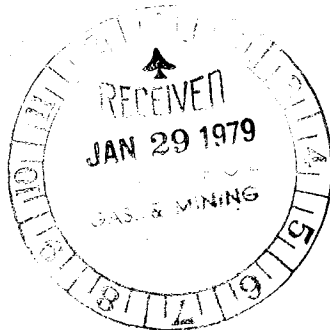
CLEON B. FEIGHT
Director

December 6, 1978

NOTE: Attached as requested - if
you have any questions, please,
advise.

Jan Vogl
Secretary

Mapco, Inc.
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102



Re: Well No. Allred SWD 2-16
Sec. 16, T. 1S, R. 3W,
Duchesne County, Utah
Well No. Birch 2-35
Sec. 35, T. 1S, R. 5W,
Duchesne County, Utah
Both need August 1978 thru' October 1978

Gentlemen:

Our records indicate that you have not filed a "Monthly Disposal Well Report" for the months indicated above on the subject well(s).

In accordance with Rule C-11, General Rules and Regulations and Rules of Practice and Procedure, it is required that a report be filed each month on or before the sixteenth (16) day of the succeeding month following injection. This report may be filed on the enclosed form, or on company forms containing substantially the same information. We are enclosing forms for your convenience.

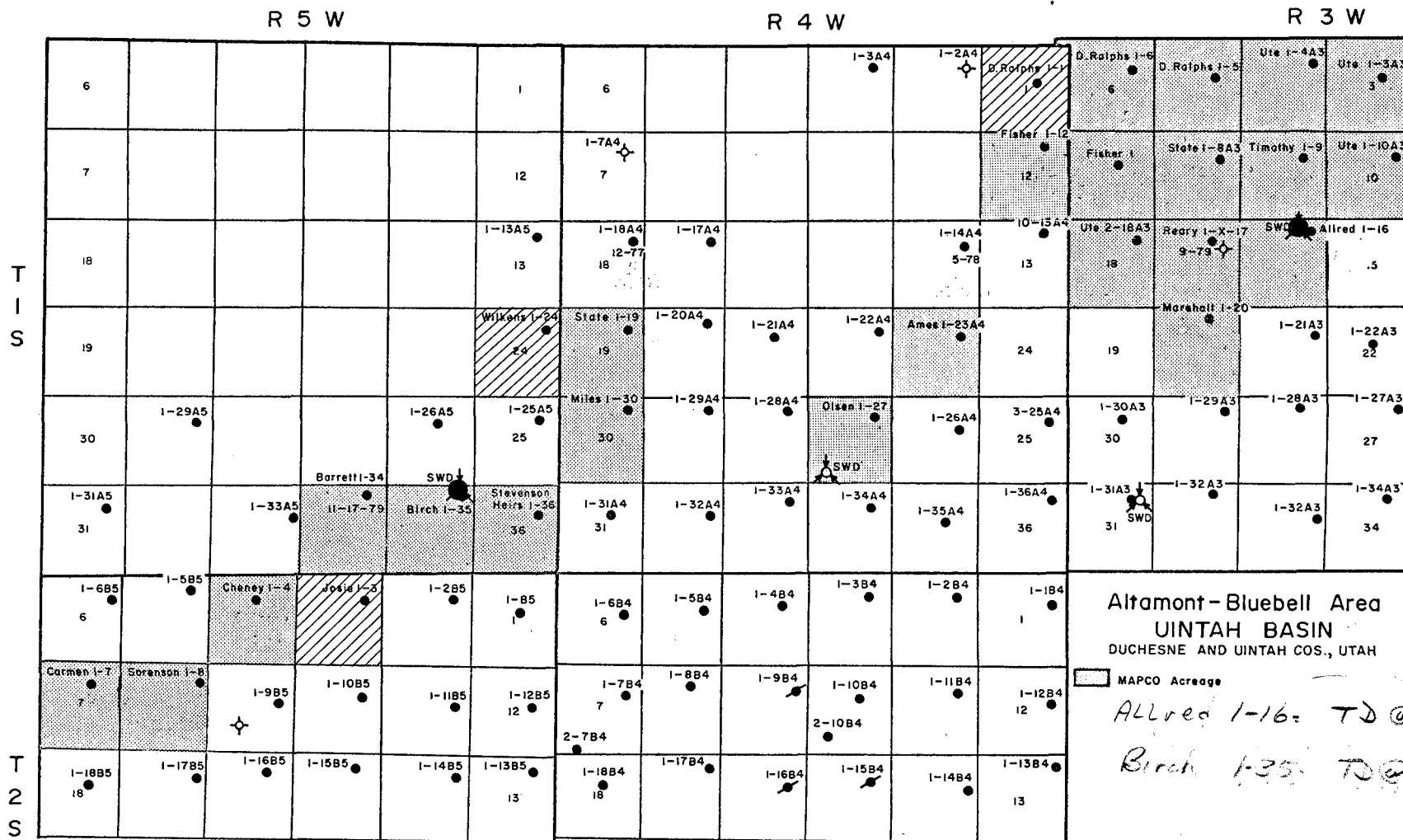
In order that we may keep our records accurate and complete, a report is still required each month, whether or not fluids are being injected.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Kathy Avila
KATHY AVILA
RECORDS CLERK




ALLred 1-16 TD @ 12400'

Birch 1-35 TD @ 15685'

ALRed 1-16
95' 36" at 3005' 12' net w/ 5154
24-38 at 13,129 83' 4" net w/ 2006

 **mapco** 
INC.
MAPCO PRODUCTION COMPANY
NORTHERN REGIONAL OFFICE
BILLINGS, MONTANA

 Sold to D & J Oil

1.18 x 700 = 826
826 x 9.9502 = 8219

Top of cement 4188
Does NOT cover pipe

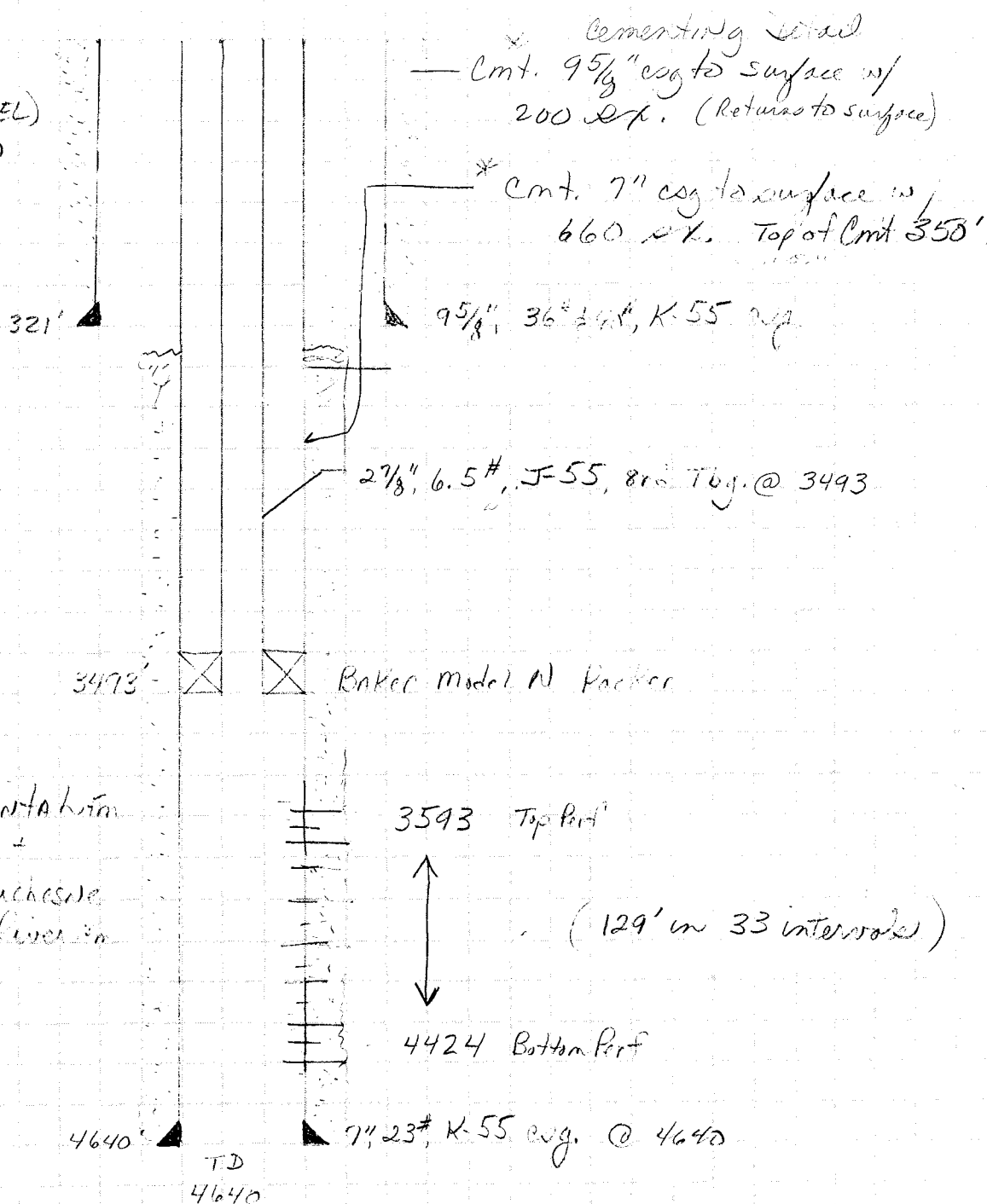
Alfred 2-16



ALLred 2-16 W.D.W.

63156L. 6325 K.E.

Location:
(470' FNL & 1292 FEL)
NENE SCOUTS RES.
Bottom hole same
as surface



* Existing Cmt. Bond is satisfactory

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

I. DANIEL STEWART
Chairman

CHARLES R. HENDERSON
JOHN L. BELL
THADIS W. BOX
C. RAY JUVELIN

CLEON B. FEIGHT
Director

December 6, 1978

Mapco, Inc.
Suite 320 Plaza West
1537 Avenue D
Billings, Montana 59102

Re: ✓ Well No. Allred SWD 2-16
Sec. 16, T. 1S, R. 3W,
Duchesne County, Utah
Well No. Birch 2-35
Sec. 35, T. 1S, R. 5W,
Duchesne County, Utah
Both need August 1978 thru' October 1978

Gentlemen:

Our records indicate that you have not filed a "Monthly Disposal Well Report" for the months indicated above on the subject well(s).

In accordance with Rule C-11, General Rules and Regulations and Rules of Practice and Procedure, it is required that a report be filed each month on or before the sixteenth (16) day of the succeeding month following injection. This report may be filed on the enclosed form, or on company forms containing substantially the same information. We are enclosing forms for your convenience.

In order that we may keep our records accurate and complete, a report is still required each month, whether or not fluids are being injected.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Kathy Avila

KATHY AVILA
RECORDS CLERK



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

Felt

WATER ANALYSIS REPORT

COMPANY MAPCO PRODUCTION INC. ADDRESS ROOSEVELT, UTAH DATE: 7/21/77

SOURCE S.H. 1-36 DATE SAMPLED 7/20/77 ANALYSIS NO.

Analysis

Mg/L

*Meq/L

1. pH	<u>7.7</u>		
2. H ₂ S (Qualitative)	<u>2.0</u>		
3. Specific Gravity	<u>1.010</u>		
4. Dissolved Solids	<u>13,348</u>		
5. Suspended Solids	<u> </u>		
6. Phenolphthalein Alkalinity (CaCO ₃)	<u> </u>		
7. Methyl Orange Alkalinity (CaCO ₃)	<u>650</u>		
8. Bicarbonate (HCO ₃)	HCO ₃ <u>793</u> ÷ 61	<u>13</u>	HCO ₃
9. Chlorides (Cl)	Cl <u>2,127</u> ÷ 35.5	<u>60</u>	Cl
10. Sulfates (SO ₄)	SO ₄ <u>6,000</u> ÷ 48	<u>125</u>	SO ₄
11. Calcium (Ca)	Ca <u>218</u> ÷ 20	<u>11</u>	Ca
12. Magnesium (Mg)	Mg <u>107</u> ÷ 12.2	<u>9</u>	Mg
13. Total Hardness (CaCO ₃)	<u>652</u>		
14. Total Iron (Fe)	<u>.1</u>		
15. * Barium (Qualitative)	<u>0</u>		
16. Strontium			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

	Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
11	Ca (HCO ₃) ₂	81.04		11		891
9	Ca SO ₄	68.07		0		0
178	Ca Cl ₂	55.50		0		0
	Mg (HCO ₃) ₂	73.17		2		146
	Mg SO ₄	60.19		7		421
	Mg Cl ₂	47.62		0		0
	Na HCO ₃	84.00		0		0
	Na ₂ SO ₄	71.03		118		8,382
	Na Cl	58.46		60		3,508

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

REMARKS Analysis indicates that a CaCO₃ scaling condition exists in this water. A small amount of MgCO₃ may precipitate also.

Respectfully submitted
TRETOLITE COMPANY

Sheryl H. Colley



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

AUG 8 1977

John & File

WATER ANALYSIS REPORT

COMPANY Mapco production co. Inc. ADDRESS Roosevelt Utah DATE 8/1/77

SOURCE Power water tank Olsen DATE SAMPLED 8/1/77 ANALYSIS NO.

Analysis

Mg/L

*Meq/L

- | | | |
|--|------------------------------------|----------------------------|
| 1. pH | <u>7.4</u> | |
| 2. H ₂ S (Qualitative) | <u>5.5</u> | |
| 3. Specific Gravity | <u>1.010</u> | |
| 4. Dissolved Solids | <u>5,721</u> | |
| 5. Suspended Solids | <u>0</u> | |
| 6. Phenolphthalein Alkalinity (CaCO ₃) | <u>0</u> | |
| 7. Methyl Orange Alkalinity (CaCO ₃) | <u>1000</u> | |
| 8. Bicarbonate (HCO ₃) | HCO ₃ <u>1,220</u> ÷ 61 | <u>20</u> HCO ₃ |
| 9. Chlorides (Cl) | Cl <u>2,127</u> ÷ 35.5 | <u>60</u> Cl |
| 10. Sulfates (SO ₄) | SO ₄ <u>375</u> ÷ 48 | <u>8</u> SO ₄ |
| 11. Calcium (Ca) | Ca <u>87</u> ÷ 20 | <u>4</u> Ca |
| 12. Magnesium (Mg) | Mg <u>26</u> ÷ 12.2 | <u>2</u> Mg |
| 13. Total Hardness (CaCO ₃) | <u>326</u> | |
| 14. Total Iron (Fe) | <u>.1</u> | |
| 15. Barium (Qualitative) | | |
| 16. Strontium | | |
- *Milli equivalents per liter

Sulfate Reducing Bacteria

1-10 c/ml

PROBABLE MINERAL COMPOSITION

4	Ca	←	HCO ₃	20
2	Mg	→	SO ₄	8
82	Na	→	Cl	60

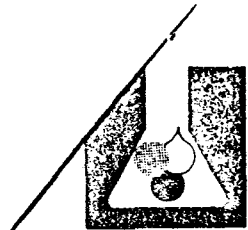
Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04	<u>4</u>			<u>324</u>
Ca SO ₄	68.07	<u>0</u>			<u>0</u>
Ca Cl ₂	55.50	<u>0</u>			<u>0</u>
Mg (HCO ₃) ₂	73.17	<u>2</u>			<u>146</u>
Mg SO ₄	60.19	<u>0</u>			<u>0</u>
Mg Cl ₂	47.62	<u>0</u>			<u>0</u>
Na HCO ₃	84.00	<u>14</u>			<u>1,176</u>
Na ₂ SO ₄	71.03	<u>8</u>			<u>568</u>
Na Cl	58.46	<u>60</u>			<u>3,507</u>

REMARKS Analysis indicates that the power water has a CaCO₃ & MgCO₃ scaling tendency
Corrosive nature of water due to H₂S.

Respectfully submitted
TRETOLITE COMPANY

Robert A. Culbert



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

JAN 14 1977

(801) 722-2254

LABORATORY NUMBER W-3861
SAMPLE TAKEN 1/11/77
SAMPLE RECEIVED 1/11/77
RESULTS REPORTED _____

SAMPLE DESCRIPTION _____ FIELD NO. Fisher
COMPANY Mapco LEASE _____ WELL NO. 1-7
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS Water Tank Water Sample

SAMPLE TAKEN BY _____

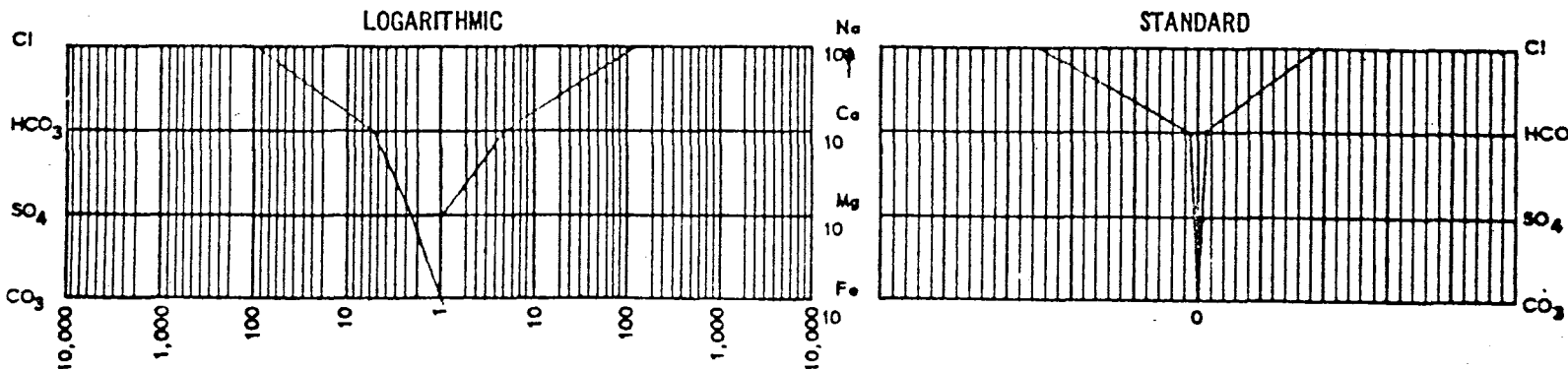
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0036 pH 6.60 RES. 0.84 OHM METERS @ 77°F

TOTAL HARDNESS 382.7 mg/L as CaCO₃ TOTAL ALKALINITY 648.0 mg/L as CaCO₃

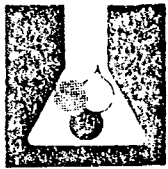
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	124.0	6.20		
MAGNESIUM - Mg ++	10.3	0.84		
SODIUM - Na +	2880.0	125.22		
BARIUM (INCL. STRONTIUM) - Ba ++	10.0	0.15		
TOTAL IRON - Fe ++ AND Fe +++	17.1	0.61	133.02	
BICARBONATE - HCO ₃ -	395.4	6.48		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	129.0	2.69		
CHLORIDE - CL -	3414.2	96.17	105.34	
TOTAL DISSOLVED SOLIDS	6680.0			

← MILLEQUIVALENTS PER LITER →



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

JAN 14 1977

LABORATORY NUMBER W-3860
SAMPLE TAKEN 1/11/77
SAMPLE RECEIVED 1/11/77
RESULTS REPORTED _____

SAMPLE DESCRIPTION _____ FIELD NO. Fisher
COMPANY Mapco LEASE _____ WELL NO. 1-7
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

Treator Water Sample

SAMPLE TAKEN BY _____

CHEMICAL AND PHYSICAL PROPERTIES

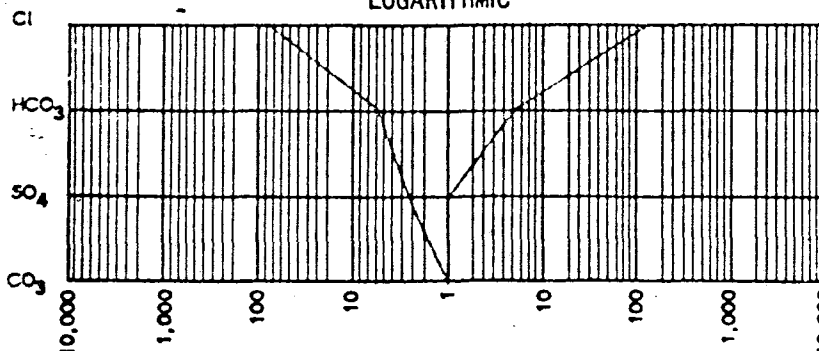
SPECIFIC GRAVITY @60/60° F. 1.0040 pH 6.94 RES. 0.88 OHM METERS @ 77°F

TOTAL HARDNESS 397.5 mg/L as CaCO₃ TOTAL ALKALINITY 628.0 mg/L as CaCO₃

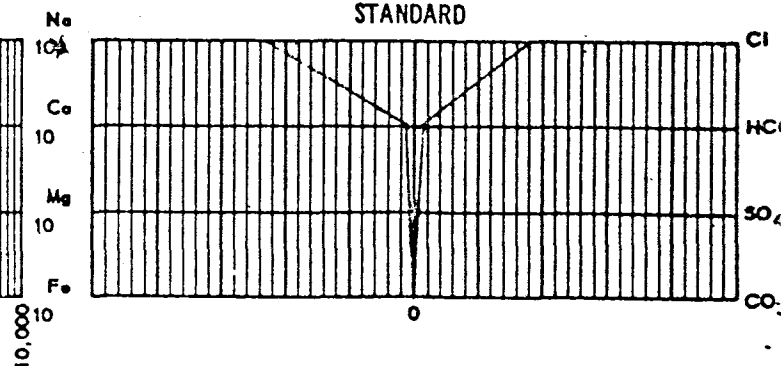
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	127.0	6.35		
MAGNESIUM - Mg ++	9.6	0.79		
SODIUM - Na +	2730.0	118.70		
BARIUM (INCL. STRONTIUM) - Ba ++	12.0	0.18		
TOTAL IRON - Fe ++ AND Fe +++	22.8	0.81	126.83	
BICARBONATE - HCO ₃ -	383.2	6.28		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	159.0	3.31		
CHLORIDE - CL -	3174.5	89.42	99.01	
TOTAL DISSOLVED SOLIDS	6480.0			

MILLEQUIVALENTS PER LITER

LOGARITHMIC



STANDARD



ANALYST _____

CHECKED _____



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WD 1-3500/TWX 910-760-1660/Telex 44-2417

MAR 18 1977

WATER ANALYSIS REPORT

COMPANY MapCo Production Inc. ADDRESS Roosevelt, Utah DATE: 2/14/77

SOURCE Fisher 1-7, Treater discharge (H2O) DATE SAMPLED 2/14/77 ANALYSIS NO. W-3985

Analysis	Mg/L	*Meq/L
1. PH <u>7.95</u>	Resistivity <u>0.87 ohm meters</u>	
2. H ₂ S (Qualitative) <u></u>		
3. Specific Gravity <u>1.0031</u>		
4. Dissolved Solids <u>6,200</u>		
5. Suspended Solids <u></u>		
6. Phenolphthalein Alkalinity (CaCO ₃) <u>650</u>		
7. Methyl Orange Alkalinity (CaCO ₃) <u></u>		
8. Bicarbonate (HCO ₃) <u>650</u> ÷ 61 <u>11</u> HCO ₃		
9. Chlorides (Cl) <u>3,678</u> ÷ 35.5 <u>104</u> Cl		
10. Sulfates (SO ₄) <u>24</u> ÷ 48 <u>1</u> SO ₄		
11. Calcium (Ca) <u>123</u> ÷ 20 <u>4</u> Ca		
12. Magnesium (Mg) <u>10</u> ÷ 12.2 <u>1</u> Mg		
13. Total Hardness (CaCO ₃) <u></u>		
14. Total Iron (Fe) <u>18</u>		
15. Barium (Qualitative) <u>1</u>		
16. <u></u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>1</u>		<u>73</u>
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		<u>6</u>		<u>504</u>
Na ₂ SO ₄	71.03		<u>1</u>		<u>71</u>
Na Cl	58.46		<u>104</u>		<u>6,079</u>

Saturation Values	Distilled Water 20°C
Ca CO ₃	<u>13 Mg/L</u>
Ca SO ₄ • 2H ₂ O	<u>2,090 Mg/L</u>
Mg CO ₃	<u>103 Mg/L</u>

REMARKS This water analysis indicates that a CaCO₃ scaling condition exists in this produced fluid.

Rhula Collett

Respectfully submitted
TRETOLITE COMPANY

Floyd H. Collett



LITE RESEARCH LABORATORIES

OCT 25 1976

F.D. No.

F.D. No. 5402e

(801) 722-2254

LABORATORY NUMBER W-3666
SAMPLE TAKEN 10/14/76
SAMPLE RECEIVED 10/15/76
RESULTS REPORTED _____

SAMPLE DESCRIPTION _____ FIELD NO. Allred 1-16
COMPANY Mapco LEASE _____ WELL NO. _____
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

Out of treater

SAMPLE TAKEN BY Hall Time: 5pm

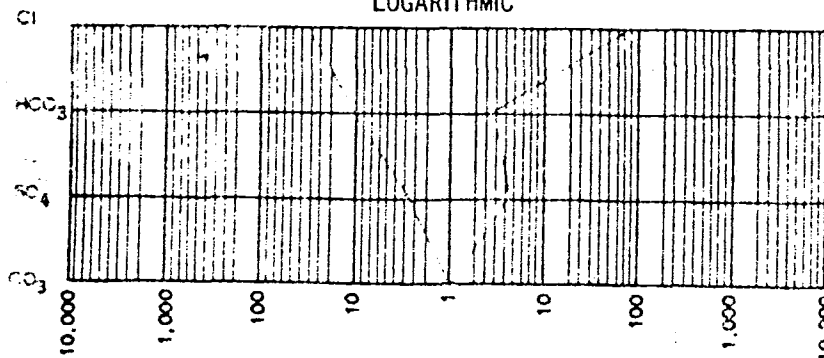
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0443 pH 6.90 RES. 0.95 OHM METERS @ 77° FTOTAL HARDNESS 472.3 mg/L as CaCO₃ TOTAL ALKALINITY 1,000.0 mg/L as CaCO₃

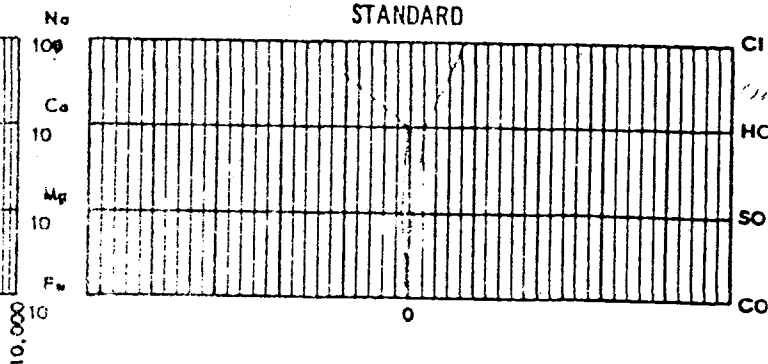
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	71.0	3.55		
MAGNESIUM - Mg ++	71.0	5.82		
SODIUM - Na +	1900.0	82.61		
BARIUM (INCL. STRONTIUM) - Ba ++	14.0	0.21		
TOTAL IRON - Fe ++ AND Fe +++	1.53	0.05	92.24	
BICARBONATE - HCO ₃ -	610.1	10.00		
CARBONATE - CO ₃ -	0	0		
SULFATE - SO ₄ -	163.0	3.40		
CHLORIDE - CL -	1474.4	41.53	54.93	
TOTAL DISSOLVED SOLIDS	6,160			

MILLEQUIVALENTS PER LITER

LOGARITHMIC



STANDARD



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. BOX 119

1000 EAST 1000 NORTH

SEP 27 1976

(801) 722-2254

LABORATORY NUMBER W-3578
SAMPLE TAKEN 9/19/76
SAMPLE RECEIVED 9/20/76
RESULTS REPORTED 8 9/24/76

SAMPLE DESCRIPTION _____ FIELD NO. _____
COMPANY ~~XXXXXX~~ Mapco Inc. LEASE _____ WELL NO. _____
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM Allred 1-16
PRODUCING FORMATION _____ TOP _____
REMARKS Call Roosevelt, Utah
M 722-4521

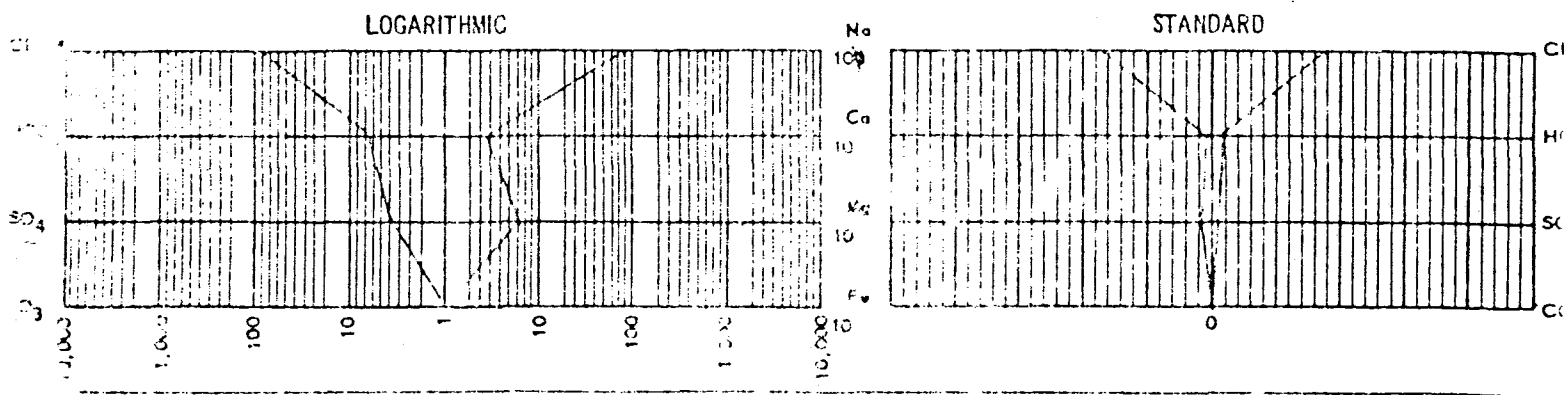
SAMPLE TAKEN BY Collins

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0050 pH 7.10 RES. 114.0 OHM METERS @ 77°FTOTAL HARDNESS 534.0 mg/L as CaCO₃ TOTAL ALKALINITY 746.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	72.0	3.60		
MAGNESIUM - Mg ++	85.8	7.03		
SODIUM - Na +	1945.0	84.57		
BARIUM (INCL. STRONTIUM) - Ba ++	10.0	0.15		
TOTAL IRON - Fe ++ AND Fe +++	0.67	0.02	95.36	
BICARBONATE - HCO ₃ -	455.16	7.46		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	236.0	4.92		
CHLORIDE - CL -	3098.0	87.27	99.65	
TOTAL DISSOLVED SOLIDS	6,092.2			

MILLEQUIVALENTS PER LITER



ANALYST _____

REVIEWED _____

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE MCINTYRE

CLEON B. FEIGHT
Director

TO: All Water Disposal Well
Operators

DATE: September 30, 1980

FROM: CLEON B. FEIGHT

SUBJECT: Waste Water Disposal
Well's

A recent survey of the WDW'S in the Uintah Basin was made and the following apparent deficiencies were noted:

(1) If a high-low pressure shut-off switch was installed, in most instances the high shut-off was far above the formation break-down pressure. Also, on many wells, a pressure chart or gauge for injection pressure had not been installed.

(At this point we'd like to remind all operators that one of the conditions for the utilization of WDW'S was the selection of 0.5/lb. square inch/ft. of depth as the overall formation fracture gradient).

(2) In numerous cases we were unable to determine the presence of a recording device or meter for daily volume injected. (This Division does not at this time specify the type of recording device to be utilized, however, in the case of continued absence of any recorder, it shall and will be the prerogative of the Division to shut the WDW in until such time a working recording device is installed).

(3) Housekeeping in many areas is totally inadequate, and results in unnecessary pollution.

(4) Well identification signs were missing on several locations.

This Division would appreciate if all operators would take immediate steps to put these wells in proper operating order no later than October 30, 1980.

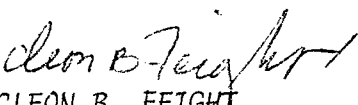
Due to the recent adoption of Rules & Regulations for underground injection of produced water, as well as secondary recovery, etc. by the EPA, a representative from said agency will accompany a member of this Division on our November inspection.

Memo
September 30, 1980
Page Two

So at this time we ask and hope that these wells be in First Class condition.

THANK YOU

DIVISION OF OIL, GAS AND MINING


CLEON B. FEIGHT
DIRECTOR

CBF/bjh



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
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August 11, 1981

Mapco Production Co.
Roosevelt, UT 84066

Re: Allred WDW 2-46
Sec. 16, T. 1S, R. 3W
Duchesne County, Utah

Gentlemen:

Please be advised that an inspection was made on the above mentioned disposal facilities on August 5, 1981.

It has been found that the area surrounding the pit needs to be cleaned up and the pit needs to be burned-off before the next monthly inspection is made.

Your prompt attention on this matter will be appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

THALIA R. PRATT
UNDERGROUND INJECTION SPECIALIST

Form UIC 10
August, 1982

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
4241 State Office Building
Salt Lake City, Utah 84114

WELL INTEGRITY REPORT

Date 11/5/82

Water Disposal Well ☒ Enhanced Recovery Well ☐ Other ☐

DOGM/UIC Cause Number _____

Company Mapco Production Co.

Address _____

City and State Roosevelt, Utah Zip Code 84066

Lease Name or Number _____ Well Name or Number Allred WDW 2-16

API Well Number _____ Location _____ 1/4 of _____ 1/4 of _____

Section 16 Township 15 Range 3W County Duchesne

Present at Completion: _____ Yes ☒ No ☐

Casing Tested in My Presence: ☒ Yes _____ No Pressure _____ PSI _____ Minutes

Packer Tested in My Presence: ☒ Yes _____ No Pressure _____ PSI _____ Minutes

Surface-Prod. Csg. Annulus _____ PSI Prod. Csg.-Tubing Annulus 800 PSI

Disposed/Injected Water Sample Taken:
_____ Yes ☒ No (Attach water analysis when obtained)

This well seems to be completed in accordance with DOGM Rule I:
Yes ☒ No ☐. If NO, write report.

Remarks: Tubing + Annulus press. equalizes @ 1250 psi
apparent down hole mechanical problem
will fix it.

I hereby certify that this report is true and complete to the best of my knowledge.

Name of Operator _____

(Signature) (Title)

RJF / R.J. Firth
DOGM Field Inspector

MEMO TO FILE

Well: Allred WDW 2-16, 16, T 2 S, R 3 W, Duchesne Co.
Company: Mapco Production Co.
Subject: Pressure Test
Date: November 5, 1982

A pressure test was conducted on this well November 5, 1982. Ron Firth, Chief Petroleum Engineer, and Gilbert Hunt, UIC Geologist, were present to witness the test.

The annulus was pressured up to 1800 psi while injecting down tubing. The pressure chart at the pump showed 800 psi. The annulus would not hold pressure above 1250 psi. A guage was attached to the tubing at the well head, it showed 1250 psi. With the well not injecting the annulus was pumped up, it would lose pressure but show no affect on the tubing pressure.

Conclusions: A small packer or tubing leak deep in the well.

The problem will be rectified and the well retested.

AKH 11/8/82



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 22, 1982

Mr. Darwin M. Kulland,
Field Superintendent
Mapco Production Company
P.O. Box 1360
Roosevelt, Utah 84066

RE: Sundry Notice Required
Allred 2-16 Well
Sec. 16, T 2 S, R 3 W
Duchesne County, Utah

Dear Mr. Kulland:

This letter is to remind you that the sundry notice concerning recent repair work performed on Allred 2-16 well has not yet been filed with this office.

Please complete the enclosed form and forward it to this office.

Sincerely,

Maren Nelson

MAREN NELSON
ADMINISTRATIVE AIDE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Water Disposal Well		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR MAPCO Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1643 Lewis Ave., Ste. 202, Billings, MT 59102		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 470' FNL & 1292' FEL Section 16, T. 1 S., R. 3 W.		8. FARM OR LEASE NAME Allred	
14. PERMIT NO. 43-013-30361		9. WELL NO. 2-16	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6315' G.L.		10. FIELD AND POOL, OR WILDCAT	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 16, T1S, R3W	
		12. COUNTY OR PARISH Duchesne	13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Chg out seal assembly	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MIRU workover rig, POOH with 2-7/8" tubing and seal assembly. Repaired seal assembly. RIH with tubing and seal assembly. Pressure tested same to 1500 psi. No leaks. POOH and RD.

RECEIVED
JAN 13 1983

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

R. E. Baumann
R. E. Baumann

TITLE

Engr. Tech.

DATE

1-11-83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

SONER CHEMICAL SPECIALTIES, INC.

P. O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000

SOONER CHEMICALS

WATER ANALYSIS REPORT

COMPANY Diamond Shamrock ADDRESS Vernal, Utah DATE 11-6-80

SOURCE Pariette Bench #4 SWD DATE SAMPLED 11-5-80 ANALYSIS NO. 1

Analysis

Mg/L

• Meq/L

- | | | | |
|--|------------------------------------|------------|------------------|
| 1. PH | <u>6.9</u> | | |
| 2. H ₂ S (Qualitative) | <u>10.5 ppm</u> | | |
| 3. Specific Gravity | <u>1.060</u> | | |
| 4. Dissolved Solids | <u> </u> | | |
| 5. Suspended Solids | <u> </u> | | |
| 6. Phenolphthalein Alkalinity (CaCO ₃) | <u> </u> | | |
| 7. Methyl Orange Alkalinity (CaCO ₃) | <u>520</u> | | |
| 8. Bicarbonate (HCO ₃) | HCO ₃ <u>634</u> ÷ 61 | <u>10</u> | HCO ₃ |
| 9. Chlorides (Cl) | Cl <u>34,692</u> ÷ 35.5 | <u>977</u> | Cl |
| 10. Sulfates (SO ₄) | SO ₄ <u>21,000</u> ÷ 48 | <u>438</u> | SO ₄ |
| 11. Calcium (Ca) | Ca <u>840</u> ÷ 20 | <u>42</u> | Ca |
| 12. Magnesium (Mg) | Mg <u>0</u> ÷ 12.2 | <u>0</u> | Mg |
| 13. Total Hardness (CaCO ₃) | <u>270</u> | | |
| 14. Total Iron (Fe) | <u>1.2</u> | | |
| 15. Barium (Qualitative) | <u>None</u> | | |
| 16. | | | |

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

42

0

1,383

Ca ←
 Mg →
 Na →

HCO₃
 SO₄
 Cl

10

438

975

Saturation Values Distilled Water 20°C

Ca CO₃ 13 Mg/L

Ca SO₄ • 2H₂O 2,090 Mg/L

Mg CO₃ 103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04		<u>10</u>		<u>810</u>
Ca SO ₄	68.07		<u>32</u>		<u>2,178</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>406</u>		<u>28,838</u>
Na Cl	58.46		<u>977</u>		<u>57,115</u>

REMARKS Water analysis indicates that a CaCO_3 (Calcium Carbonate) and CaSO_4 (Calcium Sulfate) scaling condition exists in this water. Also a corrosive environment exists due to the high chlorides (57,115), low P.H., H_2S (10.5 ppm) and Sulfate Reducing Bacteria (100-999 c/ml).

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-13-82
SOURCE Allred 1-16 DATE SAMPLED 12-13-82 ANALYSIS NO. 792

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>7.5</u>		
2. H ₂ S (Qualitative)	<u>3.5 ppm</u>		
3. Specific Gravity	<u>1.0225</u>		
4. Dissolved Solids	<u>27,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>460</u>		
8. Bicarbonate (HCO ₃)	HCO ₃ <u>561</u>	÷61	<u>9</u> HCO ₃
9. Chlorides (Cl)	Cl <u>15,222</u>	÷35.5	<u>429</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>3,300</u>	÷48	<u>69</u> SO ₄
11. Calcium (Ca)	Ca <u>228</u>	÷20	<u>11</u> Ca
12. Magnesium (Mg)	Mg <u>44</u>	÷12.2	<u>4</u> Mg
13. Total Hardness (CaCO ₃)	<u>750</u>		
14. Total Iron (Fe)	<u>0.8</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals	<u>19.6</u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

11	Ca	←	HCO ₃	9
4	Mg	→	SO ₄	69
492	Na	→	Cl	429

Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>9</u>		<u>729</u>
Ca SO ₄	68.07		<u>2</u>		<u>136</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>4</u>		<u>241</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>63</u>		<u>4,475</u>
Na Cl	58.46		<u>429</u>		<u>25,079</u>

REMARKS Resistivity = 0.285 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82

SOURCE Fisher 1-12 DATE SAMPLED 12-10-82 ANALYSIS NO. 789

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>7.1</u>		
2. H ₂ S (Qualitative)	<u>1.0 ppm</u>		
3. Specific Gravity	<u>1.0775</u>		
4. Dissolved Solids	<u>110,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>660</u>		
8. Bicarbonate (HCO ₃)	HCO ₃ <u>805</u>	÷61	<u>13</u> HCO ₃
9. Chlorides (Cl)	Cl <u>60,888</u>	÷35.5	<u>1,715</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>7,800</u>	÷48	<u>163</u> SO ₄
11. Calcium (Ca)	Ca <u>400</u>	÷20	<u>20</u> Ca
12. Magnesium (Mg)	Mg <u>122</u>	÷12.2	<u>10</u> Mg
13. Total Hardness (CaCO ₃)	<u>1,500</u>		
14. Total Iron (Fe)	<u>18</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>13</u>		<u>1,054</u>
Ca SO ₄	68.07		<u>7</u>		<u>476</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>10</u>		<u>602</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>146</u>		<u>10,370</u>
Na Cl	58.46		<u>1,715</u>		<u>100,259</u>

20	Ca	←	HCO ₃	13
10	Mg	→	SO ₄	163
1,861	Na	→	Cl	1,715

Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

REMARKS Resistivity = 0.109 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
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P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82

SOURCE Olsen 1-27 DATE SAMPLED 12-10-82 ANALYSIS NO. 788

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>7.6</u>		
2. H ₂ S (Qualitative)	<u>3.5 ppm</u>		
3. Specific Gravity	<u>1.0175</u>		
4. Dissolved Solids	<u>27,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>420</u>		
8. Bicarbonate (HCO ₃)	HCO ₃ <u>512</u>	÷61	<u>8</u> HCO ₃
9. Chlorides (Cl)	Cl <u>7,257</u>	÷35.5	<u>204</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>3,000</u>	÷48	<u>63</u> SO ₄
11. Calcium (Ca)	Ca <u>240</u>	÷20	<u>12</u> Ca
12. Magnesium (Mg)	Mg <u>73</u>	÷12.2	<u>6</u> Mg
13. Total Hardness (CaCO ₃)	<u>900</u>		
14. Total Iron (Fe)	<u>0.6</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals	<u>13.8</u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

12	Ca	←	HCO ₃	8
6	Mg	→	SO ₄	63
257	Na	→	Cl	204

Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>8</u>		<u>648</u>
Ca SO ₄	68.07		<u>4</u>		<u>272</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>6</u>		<u>361</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>53</u>		<u>3,765</u>
Na Cl	58.46		<u>204</u>		<u>11,926</u>

REMARKS Resistivity = 0.541 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE Timothy 1-9 DATE SAMPLED 12-10 -82 ANALYSIS NO. 787

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>7.6</u>		
2. H ₂ S (Qualitative)	<u>3.0 ppm</u>		
3. Specific Gravity	<u>1.0150</u>		
4. Dissolved Solids	<u>22,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	<u>C/MI</u>	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>400</u>		
8. Bicarbonate (HCO ₃)	<u>488</u>	<u>÷61</u>	<u>8</u> HCO ₃
9. Chlorides (Cl)	<u>9,912</u>	<u>÷35.5</u>	<u>279</u> Cl
10. Sulfates (SO ₄)	<u>5,250</u>	<u>÷48</u>	<u>109</u> SO ₄
11. Calcium (Ca)	<u>240</u>	<u>÷20</u>	<u>12</u> Ca
12. Magnesium (Mg)	<u>49</u>	<u>÷12.2</u>	<u>4</u> Mg
13. Total Hardness (CaCO ₃)	<u>800</u>		
14. Total Iron (Fe)	<u>0.4</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

12	Ca	←	HCO ₃	8
4	Mg	→	SO ₄	109
380	Na	→	Cl	279

Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>8</u>		<u>648</u>
Ca SO ₄	68.07		<u>4</u>		<u>272</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>4</u>		<u>241</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>101</u>		<u>7,174</u>
Na Cl	58.46		<u>279</u>		<u>16,310</u>

REMARKS Resistivity = 0.389 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

P.O. Box 711 SEMINOLE, OKLAHOMA 74868 Phone (405) 382-2000
P.O. Box 696 GRAND JUNCTION, COLORADO 81502 Phone (303) 858-9765
P.O. Box 1436 ROOSEVELT, UTAH 84066 Phone (801) 722-3386

WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE Fisher 1-7 DATE SAMPLED 12-10-82 ANALYSIS NO. 786

Analysis

	Mg/l (ppm)	*Meq/l
1. PH <u>7.9</u>		
2. H ₂ S (Qualitative) <u>108.0 ppm</u>		
3. Specific Gravity <u>1.0100</u>		
4. Dissolved Solids <u>15,000</u>		
5. Suspended Solids <u></u>		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃) <u>960</u>		
8. Bicarbonate (HCO ₃) <u>1,171</u> ÷ 61 <u>19</u> HCO ₃		
9. Chlorides (Cl) <u>7,788</u> ÷ 35.5 <u>219</u> Cl		
10. Sulfates (SO ₄) <u>2,700</u> ÷ 48 <u>56</u> SO ₄		
11. Calcium (Ca) <u>120</u> ÷ 20 <u>6</u> Ca		
12. Magnesium (Mg) <u>36</u> ÷ 12.2 <u>3</u> Mg		
13. Total Hardness (CaCO ₃) <u>450</u>		
14. Total Iron (Fe) <u>0.6</u>		
15. Barium (Qualitative) <u>0</u>		
16. Phosphate Residuals <u></u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

6	Ca	←	HCO ₃	19
3	Mg	←	SO ₄	56
285	Na	←	Cl	219

Saturation Values

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Distilled Water 20°C

13 Mg/l
2,090 Mg/l
103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		6		486
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		3		220
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		10		840
Na ₂ SO ₄	71.03		56		3,978
Na Cl	58.46		219		12,803

REMARKS Resistivity = 0.558 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

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WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82

SOURCE Ralps 1-5 DATE SAMPLED 12-10-82 ANALYSIS NO. 785

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>8.0</u>		
2. H ₂ S (Qualitative)	<u>180.0 ppm</u>		
3. Specific Gravity	<u>1.010</u>		
4. Dissolved Solids	<u>15,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>1,500</u>		
8. Bicarbonate (HCO ₃)	<u>1,830</u>	÷61	<u>30</u> HCO ₃
9. Chlorides (Cl)	<u>2,124</u>	÷35.5	<u>60</u> Cl
10. Sulfates (SO ₄)	<u>20</u>	÷48	<u>0</u> SO ₄
11. Calcium (Ca)	<u>80</u>	÷20	<u>4</u> Ca
12. Magnesium (Mg)	<u>24</u>	÷12.2	<u>2</u> Mg
13. Total Hardness (CaCO ₃)	<u>300</u>		
14. Total Iron (Fe)	<u>1.8</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

4	Ca	←	HCO ₃	30
2	Mg	→	SO ₄	0
84	Na	→	Cl	60

Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>2</u>		<u>146</u>
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		<u>24</u>		<u>2,016</u>
Na ₂ SO ₄	71.03				
Na Cl	58.46		<u>60</u>		<u>3,508</u>

REMARKS Resistivity = 0.821 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82

SOURCE Marshall 1-20 DATE SAMPLED 12-10 ANALYSIS NO. 784

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>7.3</u>		
2. H ₂ S (Qualitative)	<u>2.0 ppm</u>		
3. Specific Gravity	<u>1.0125</u>		
4. Dissolved Solids	<u>20,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>440</u>		
8. Bicarbonate (HCO ₃)	HCO ₃ <u>537</u>	÷61	<u>9</u> HCO ₃
9. Chlorides (Cl)	Cl <u>3,186</u>	÷35.5	<u>90</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>4,650</u>	÷48	<u>97</u> SO ₄
11. Calcium (Ca)	Ca <u>120</u>	÷20	<u>6</u> Ca
12. Magnesium (Mg)	Mg <u>49</u>	÷12.2	<u>4</u> Mg
13. Total Hardness (CaCO ₃)	<u>500</u>		
14. Total Iron (Fe)	<u>0.4</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals	<u>26.6</u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

6	Ca	←	HCO ₃	9
4	Mg	→	SO ₄	97
186	Na	→	Cl	90

Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>6</u>		<u>486</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>3</u>		<u>220</u>
Mg SO ₄	60.19		<u>1</u>		<u>60</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>96</u>		<u>6,819</u>
Na Cl	58.46		<u>90</u>		<u>5,261</u>

REMARKS Resistivity = 0.839 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-II-82
SOURCE State 1-8 DATE SAMPLED 12-10 ANALYSIS NO. 783

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>7.7</u>		
2. H ₂ S (Qualitative)	<u>0.5 ppm</u>		
3. Specific Gravity	<u>1.0075</u>		
4. Dissolved Solids	<u>10,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	<u>C/MI</u>	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>560</u>		
8. Bicarbonate (HCO ₃)	<u>HCO₃ 683</u>	<u>÷61</u>	<u>11 HCO₃</u>
9. Chlorides (Cl)	<u>Cl 3,540</u>	<u>÷35.5</u>	<u>100 Cl</u>
10. Sulfates (SO ₄)	<u>SO₄ 40</u>	<u>÷48</u>	<u>1 SO₄</u>
11. Calcium (Ca)	<u>Ca 45</u>	<u>÷20</u>	<u>2 Ca</u>
12. Magnesium (Mg)	<u>Mg 9</u>	<u>÷12.2</u>	<u>1 Mg</u>
13. Total Hardness (CaCO ₃)	<u>150</u>		
14. Total Iron (Fe)	<u>2.2</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals	<u>12.7</u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

2	Ca	←	HCO ₃	11
1	Mg	→	SO ₄	1
109	Na	→	Cl	100

Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l

Ca SO₄ · 2H₂O 2,090 Mg/l

Mg CO₃ 103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		2		162
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		1		73
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		8		67
Na ₂ SO ₄	71.03		1		71
Na Cl	58.46		100		5,846

REMARKS Resistivity = 1.309 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE Miles 1-30 DATE SAMPLED 12-10-82 ANALYSIS NO. 782

Analysis

	Mg/l (ppm)	*Meq/l
1. PH	7.8	
2. H ₂ S (Qualitative)	1.0 ppm	
3. Specific Gravity	1.0125	
4. Dissolved Solids	20,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃)	620	
8. Bicarbonate (HCO ₃)	HCO ₃ 756 ÷61 12 HCO ₃	
9. Chlorides (Cl)	Cl 3,710 ÷35.5 105 Cl	
10. Sulfates (SO ₄)	SO ₄ 4,800 ÷48 100 SO ₄	
11. Calcium (Ca)	Ca 42 ÷20 2 Ca	
12. Magnesium (Mg)	Mg 12 ÷12.2 1 Mg	
13. Total Hardness (CaCO ₃)	150	
14. Total Iron (Fe)	0.4	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

2	Ca	←	HCO ₃	12
1	Mg	→	SO ₄	100
214	Na	→	Cl	105

Saturation Values

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Distilled Water 20°C

13 Mg/l
2,090 Mg/l
103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		2		162
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		1		73
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		9		756
Na ₂ SO ₄	71.03		100		7,103
Na Cl	58.46		105		6,138

REMARKS Resistivity = 0.649 Ohm Meters @ 70 °F

SOONER CHEMICAL SPECIALTIES, INC.

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WATER ANALYSIS REPORT

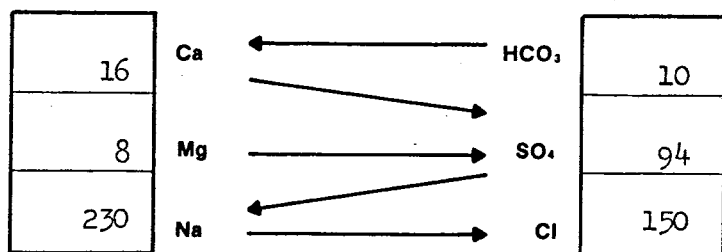
COMPANY Mapco Production Inc. ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE Barrett 1-34 DATE SAMPLED 12-10-82 ANALYSIS NO. 781

Analysis

	Mg/l (ppm)	*Meq/l
1. PH <u>7.7</u>		
2. H ₂ S (Qualitative) <u>1.5 ppm</u>		
3. Specific Gravity <u>1.0125</u>		
4. Dissolved Solids <u>20,000</u>		
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u> C/MI		
7. Methyl Orange Alkalinity (CaCO ₃) <u>510</u>		
8. Bicarbonate (HCO ₃) <u>622</u> ÷ 61 <u>10</u> HCO ₃		
9. Chlorides (Cl) <u>5,310</u> ÷ 35.5 <u>150</u> Cl		
10. Sulfates (SO ₄) <u>4,500</u> ÷ 48 <u>94</u> SO ₄		
11. Calcium (Ca) <u>320</u> ÷ 20 <u>16</u> Ca		
12. Magnesium (Mg) <u>97</u> ÷ 12.2 <u>8</u> Mg		
13. Total Hardness (CaCO ₃) <u>1,200</u>		
14. Total Iron (Fe) <u>3.2</u>		
15. Barium (Qualitative) <u>0</u>		
16. Phosphate Residuals <u>14.2</u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values

Distilled Water 20°C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		10		810
Ca SO ₄	68.07		6		408
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		8		482
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		80		5,682
Na Cl	58.46		150		8,769

REMARKS Resistivity = 0.635 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE Birch 1-35 DATE SAMPLED 12-10-82 ANALYSIS NO. 777

Analysis

	Mg/l (ppm)	*Meq/l
1. PH	7.9	
2. H ₂ S (Qualitative)	1.0 ppm	
3. Specific Gravity	1.0125	
4. Dissolved Solids	20,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count <u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	500	
8. Bicarbonate (HCO ₃)	HCO ₃ 610 ÷ 61 10 HCO ₃	
9. Chlorides (Cl)	Cl 5,310 ÷ 35.5 150 Cl	
10. Sulfates (SO ₄)	SO ₄ 9,750 ÷ 48 203 SO ₄	
11. Calcium (Ca)	Ca 540 ÷ 20 27 Ca	
12. Magnesium (Mg)	Mg 73 ÷ 12.2 6 Mg	
13. Total Hardness (CaCO ₃)	1,650	
14. Total Iron (Fe)	0.6	
15. Barium (Qualitative)	0	
16. Phosphate Residuals		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		10		810
Ca SO ₄	68.07		17		1,157
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		6		361
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		180		12,785
Na Cl	58.46		150		8,769

Saturation Values

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Distilled Water 20° C

13 Mg/l
2,090 Mg/l
103 Mg/l

REMARKS Resistivity = 0.743 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE Sorenson 1-8 DATE SAMPLED 12-10-82 ANALYSIS NO. 778

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>7.7</u>		
2. H ₂ S (Qualitative)	<u>1.5 ppm</u>		
3. Specific Gravity	<u>1.0150</u>		
4. Dissolved Solids	<u>8,000</u>		
5. Suspended Solids	<u>25,000</u>		
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>470</u>		
8. Bicarbonate (HCO ₃)	HCO ₃ <u>573</u>	÷61	<u>9</u> HCO ₃
9. Chlorides (Cl)	Cl <u>3,540</u>	÷35.5	<u>100</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>4,500</u>	÷48	<u>94</u> SO ₄
11. Calcium (Ca)	Ca <u>240</u>	÷20	<u>12</u> Ca
12. Magnesium (Mg)	Mg <u>36</u>	÷12.2	<u>3</u> Mg
13. Total Hardness (CaCO ₃)	<u>750</u>		
14. Total Iron (Fe)	<u>0.8</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

12	Ca	←	HCO ₃	9
3	Mg	→	SO ₄	94
188	Na	→	Cl	100

Saturation Values

Distilled Water 20°C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>9</u>		<u>729</u>
Ca SO ₄	68.07		<u>3</u>		<u>204</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>3</u>		<u>181</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>88</u>		<u>6,251</u>
Na Cl	58.46		<u>100</u>		<u>5,846</u>

REMARKS Resistivity = 1.038 Ohm Meters @ 70 °F

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WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE State 1-19 DATE SAMPLED 12-10-82 ANALYSIS NO. 779

Analysis

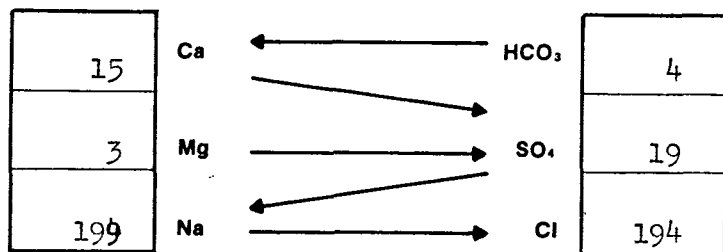
Mg/l (ppm)

*Meq/l

1. PH	<u>7.3</u>		
2. H ₂ S (Qualitative)	<u>1.0 ppm</u>		
3. Specific Gravity	<u>1.0150</u>		
4. Dissolved Solids	<u>22,000</u>		
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>Initiated Culture</u>	C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>180</u>		
8. Bicarbonate (HCO ₃)	HCO ₃ <u>220</u>	÷61	<u>4</u> HCO ₃
9. Chlorides (Cl)	Cl <u>6,903</u>	÷35.5	<u>194</u> Cl
10. Sulfates (SO ₄)	SO ₄ <u>900</u>	÷48	<u>19</u> SO ₄
11. Calcium (Ca)	Ca <u>300</u>	÷20	<u>15</u> Ca
12. Magnesium (Mg)	Mg <u>36</u>	÷12.2	<u>3</u> Mg
13. Total Hardness (CaCO ₃)	<u>900</u>		
14. Total Iron (Fe)	<u>1.4</u>		
15. Barium (Qualitative)	<u>0</u>		
16. Phosphate Residuals	<u>17.4</u>		

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values

Distilled Water 20°C

Ca CO₃ 13 Mg/l
Ca SO₄ · 2H₂O 2,090 Mg/l
Mg CO₃ 103 Mg/l

Resistivity = 0.675 Ohm Meters @ 70 °F

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07		<u>11</u>		<u>969</u>
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>3</u>		<u>181</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>5</u>		<u>355</u>
Na Cl	58.46		<u>194</u>		<u>11,341</u>

REMARKS _____

SOONER CHEMICAL SPECIALTIES, INC.

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WATER ANALYSIS REPORT

COMPANY Mapco Production ADDRESS Roosevelt, Utah DATE: 12-11-82
SOURCE Stephenson Heirs 1-36 DATE SAMPLED 12-10-82 ANALYSIS NO. 780

Analysis

	Mg/l (ppm)	*Meq/l
1. PH	7.7	
2. H ₂ S (Qualitative)	0.5 ppm	
3. Specific Gravity	1.0175	
4. Dissolved Solids	27,000	
5. Suspended Solids		
6. Anaerobic Bacterial Count	Initiated Culture	C/MI
7. Methyl Orange Alkalinity (CaCO ₃)	460	
8. Bicarbonate (HCO ₃)	HCO ₃ 561	÷61 9 HCO ₃
9. Chlorides (Cl)	Cl 4,602	÷35.5 130 Cl
10. Sulfates (SO ₄)	SO ₄ 5,250	÷48 109 SO ₄
11. Calcium (Ca)	Ca 480	÷20 24 Ca
12. Magnesium (Mg)	Mg 73	÷12.2 6 Mg
13. Total Hardness (CaCO ₃)	1,500	
14. Total Iron (Fe)	2.2	
15. Barium (Qualitative)	0	
16. Phosphate Residuals	8.6	

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

24	Ca	←	HCO ₃	9
6	Mg	→	SO ₄	109
218	Na	→	Cl	130

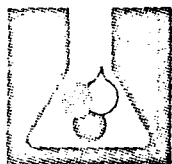
Saturation Values

Distilled Water 20°C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		9		729
Ca SO ₄	68.07		15		1,021
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		6		361
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		88		6,251
Na Cl	58.46		130		7,600

REMARKS Resistivity = 0.652 Ohm Meters @ 70 °F



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2093
SAMPLE TAKEN 4-9-75
SAMPLE RECEIVED 4-10-75
RESULTS REPORTED 4-15-75

SAMPLE DESCRIPTION
COMPANY Mapco Production LEASE Birch FIELD NO. 2-35
FIELD COUNTY STATE
SAMPLE TAKEN FROM
PRODUCING FORMATION TOP
REMARKS

SAMPLE TAKEN BY Steve Hale

CHEMICAL AND PHYSICAL PROPERTIES

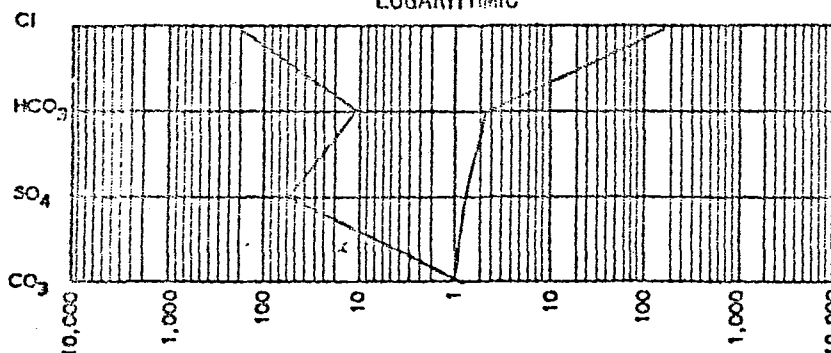
SPECIFIC GRAVITY @60/60° F. 1.0084 pH 7.73 RES. 0.60 OHM METERS @ 77°F

TOTAL HARDNESS 201.44 mg/L as CaCO₃ TOTAL ALKALINITY 718.0 mg/L as CaCO₃

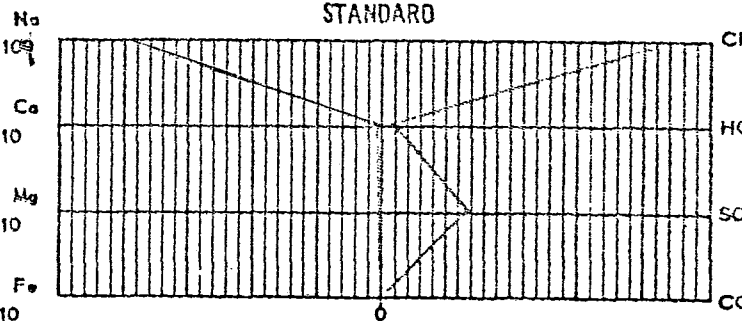
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	52.20	2.61		
MAGNESIUM - Mg ++	17.20	1.41		
SODIUM - Na +	4510.0	196.09		
BARIUM (INCL. STRONTIUM) - Ba ++	1.32	0.02		
TOTAL IRON - Fe ++ AND Fe +++	0.17	0.006	200.14	
BICARBONATE - HCO ₃ -	718.0	11.77		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	3300.0	68.75		
CHLORIDE - CL -	7597.0	214.0	294.52	
TOTAL DISSOLVED SOLIDS	11000.			

← MILLEQUIVALENTS PER LITER →

LOGARITHMIC

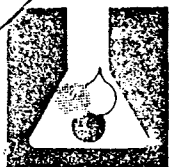


STANDARD



ANALYST

CHECKED



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

SEP 27 1974

LABORATORY NUMBER W-1386
SAMPLE TAKEN _____
SAMPLE RECEIVED _____
RESULTS REPORTED _____

SAMPLE DESCRIPTION _____ FIELD NO. _____
COMPANY MAPCO LEASE Alred WELL NO. 116
FIELD Altamont COUNTY Duchesne STATE Utah
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

SAMPLE TAKEN BY _____

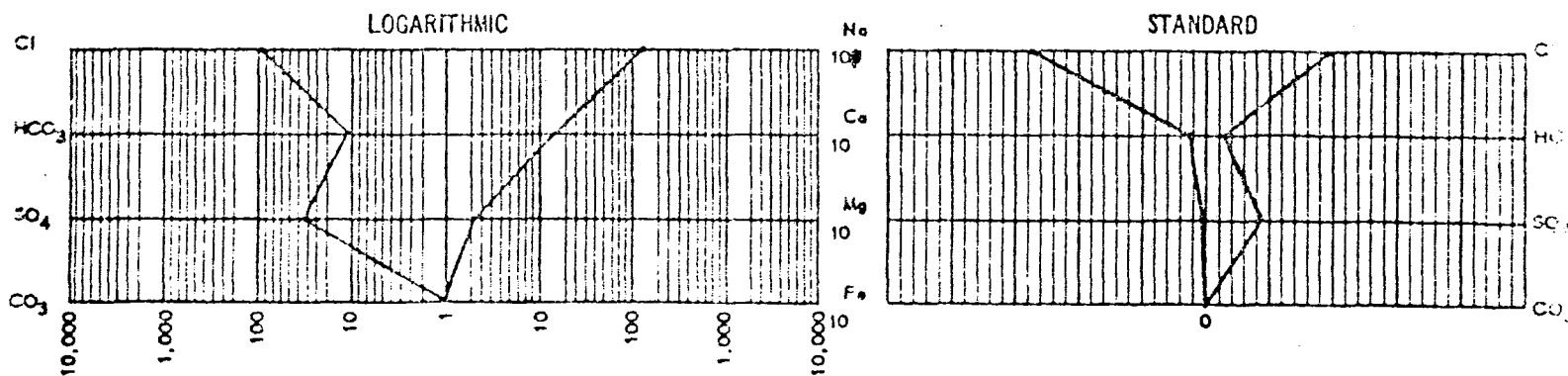
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 0.9949 pH 7.65 RES. .60 OHM METERS @ 77°F

TOTAL HARDNESS 834.2 mg/L as CaCO₃ TOTAL ALKALINITY 652 mg/L as CaCO₃

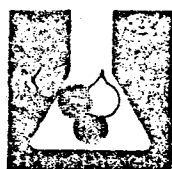
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	284.0	14.2		
MAGNESIUM - Mg ++	25.8	2.1		
SODIUM - Na +	3150.0	137.0		
BARIUM (INCL. STRONTIUM) - Ba ++	12.7	0.19		
TOTAL IRON - Fe ++ AND Fe +++	10.50	0.38	153.8	
BICARBONATE - HCO ₃ ⁻	652	10.7		
CARBONATE - CO ₃ ⁼⁼	0	0		
SULFATE - SO ₄ ⁼⁼	2215	46.1		
CHLORIDE - CL ⁻	3448.6	97.1		
TOTAL DISSOLVED SOLIDS	10800.0			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2195
SAMPLE TAKEN _____
SAMPLE RECEIVED 4-24-75
RESULTS REPORTED 4-24-75

SAMPLE DESCRIPTION
COMPANY Mapco Production LEASE _____ State _____ FIELD NO. _____
FIELD _____ COUNTY _____ STATE _____ WELL NO. 1-19
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0053 pH 7.91 RES. .80 OHM METERS @ 77° F

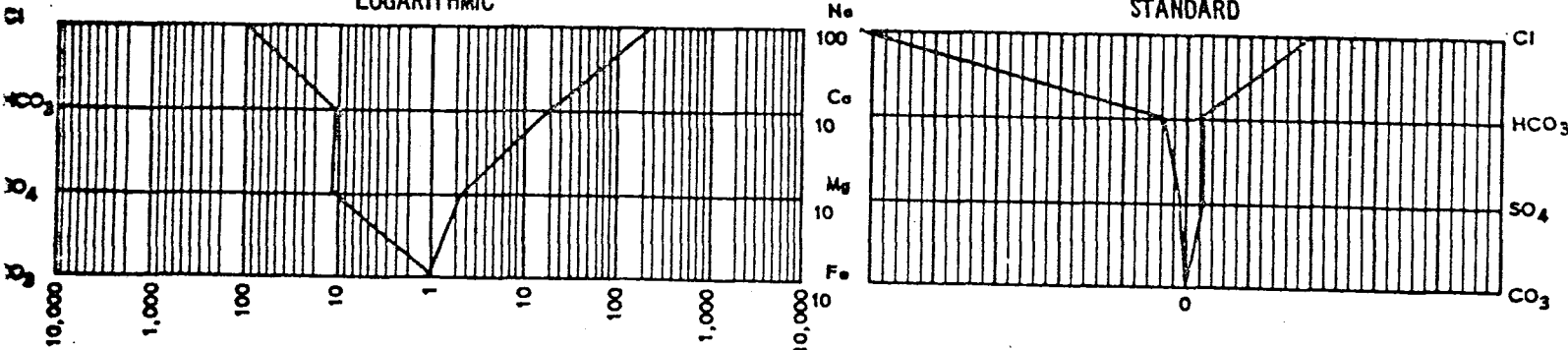
TOTAL HARDNESS 1083.0 mg/L as CaCO₃ TOTAL ALKALINITY 734.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	380.0	19.0		
MAGNESIUM - Mg ++	32.20	2.64		
SODIUM - Na +	6000.0	260.87		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	2.44	0.09	338.88	
BICARBONATE - HCO ₃ -	734.0	12.03		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	623.0	12.98		
CHLORIDE - CL -	3548.6	99.96	124.97	
TOTAL DISSOLVED SOLIDS	7840			

← MILLEQUIVALENTS PER LITER →

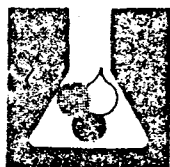
LOGARITHMIC

STANDARD



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2195
SAMPLE TAKEN _____
SAMPLE RECEIVED 4-24-75
RESULTS REPORTED 4-24-75

SAMPLE DESCRIPTION

COMPANY Mapco Production LEASE _____ STATE _____ FIELD NO. _____
FIELD _____ COUNTY _____ STATE _____ WELL NO. 1-19
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

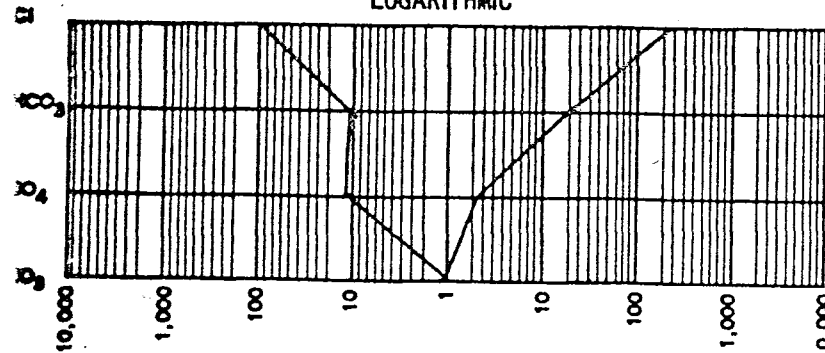
SPECIFIC GRAVITY @60/60° F. 1.0053 pH 7.91 RES. .80 OHM METERS @ 77°F

TOTAL HARDNESS 1083.0 mg/L as CaCO₃ TOTAL ALKALINITY 734.0 mg/L as CaCO₃

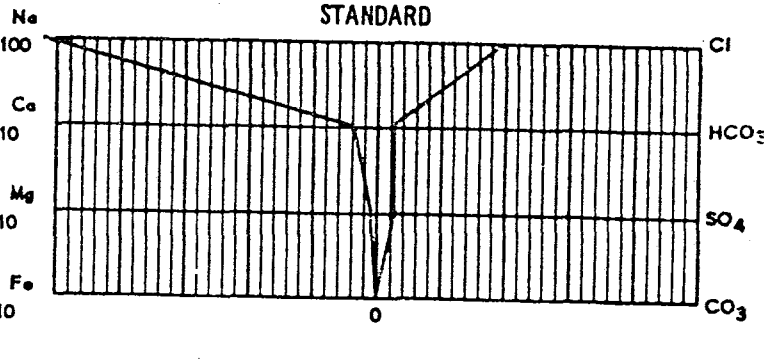
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	380.0	19.0		
MAGNESIUM - Mg ++	32.20	2.64		
SODIUM - Na +	6000.0	260.87		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	2.44	0.09	338.88	
BICARBONATE - HCO ₃ -	734.0	12.03		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	623.0	12.98		
CHLORIDE - CL -	3548.6	99.96	124.97	
TOTAL DISSOLVED SOLIDS	7840			

← MILLEQUIVALENTS PER LITER →

LOGARITHMIC

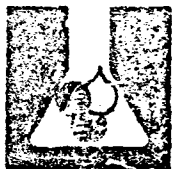


STANDARD



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2194
SAMPLE TAKEN _____
SAMPLE RECEIVED 4-24-75
RESULTS REPORTED 4-24-75

SAMPLE DESCRIPTION

COMPANY Mapco Production LEASE Sorenson FIELD NO. _____
WELL NO. 1-8
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

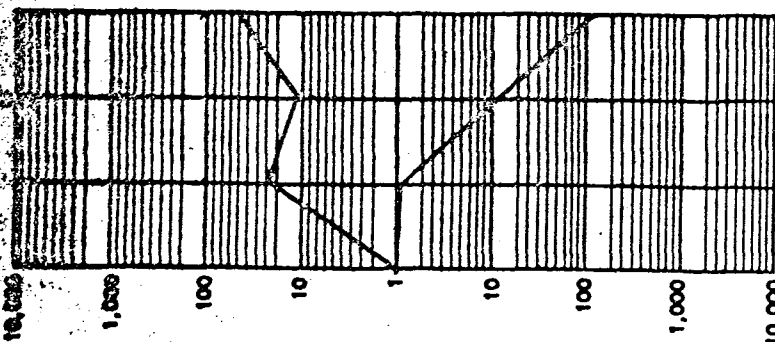
SPECIFIC GRAVITY @ 60/60° F. 1.0056 pH 8.05 RES. 1.10 OHM METERS @ 77°F

TOTAL HARDNESS 551.1 mg/L as CaCO₃ TOTAL ALKALINITY 718.0 mg/L as CaCO₃

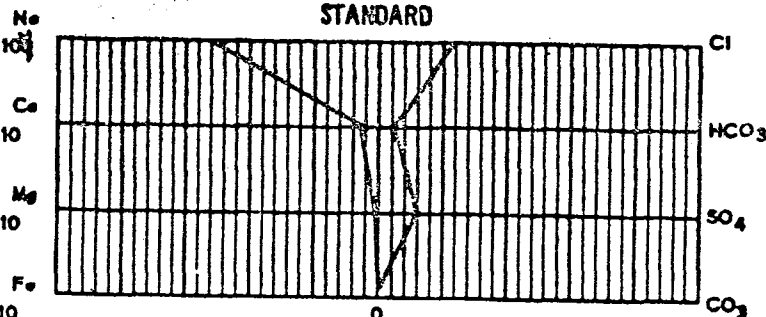
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	212.0	10.60		
MAGNESIUM - Mg ++	4.54	0.37		
SODIUM - Na +	3000.0	130.43		
POTASSIUM (KCL, STRONTIUM) - K ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	1.68	0.06	141.58	
BICARBONATE - HCO ₃ -	718.0	11.77		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	1305.0	27.19		
CHLORIDE - CL -	2054.2	57.86	96.82	
TOTAL DISSOLVED SOLIDS	5640			

MILLEQUIVALENTS PER LITER

LOGARITHMIC

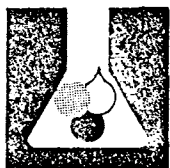


STANDARD



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LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

JUN 2 1975

LABORATORY NUMBER W02244
SAMPLE TAKEN _____
SAMPLE RECEIVED 5-5-75
RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION
COMPANY Mapco Production Inc. LEASE _____ STATE _____ FIELD NO. _____
WELL NO. 1-8
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

SAMPLE TAKEN BY Floyd Collett

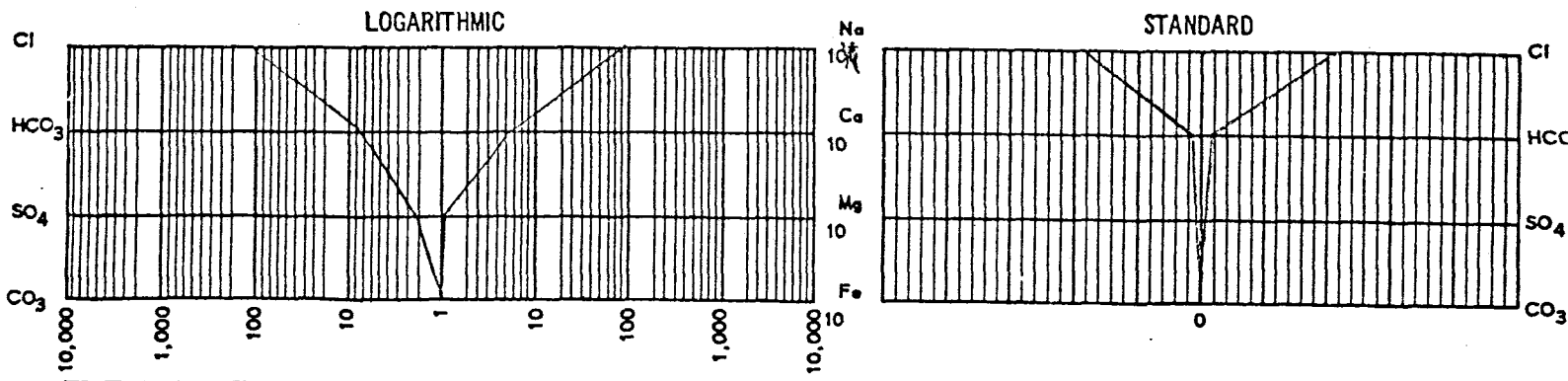
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0041 pH 8.30 RES. 1.00 OHM METERS @ 77°F

TOTAL HARDNESS 379.78 mg/L as CaCO₃ TOTAL ALKALINITY 528.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	135.0	6.75		
MAGNESIUM - Mg ++	8.6	0.70		
SODIUM - Na +	2077.0	90.30		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	4.06	0.15	97.90	
BICARBONATE - HCO ₃ -	528.0	8.66		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	102.0	2.13		
CHLORIDE - CL -	3698.5	104.18	114.97	
TOTAL DISSOLVED SOLIDS	5320			

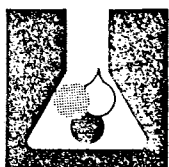
← MILLEQUIVALENTS PER LITER →



ANALYST _____

CHECKED _____

JUN 2 1975



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

(801) 722-2254

LABORATORY NUMBER W-2245
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 5-5-75
 RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION
 COMPANY Mapco Production Inc. LEASE Timothy FIELD NO. _____
 FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS _____

SAMPLE TAKEN BY Floyd Collett

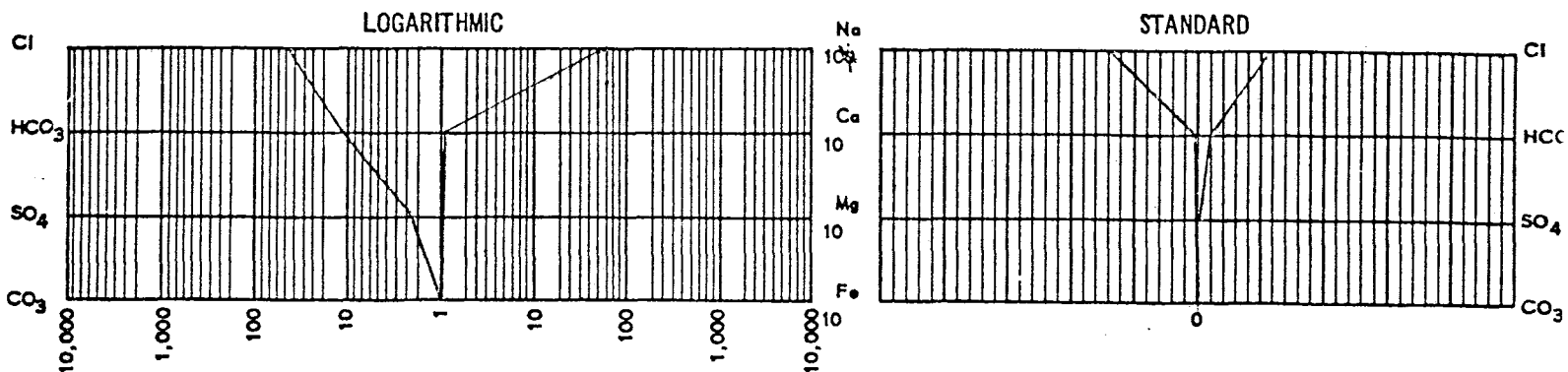
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0026 pH 8.40 RES. 1.50 OHM METERS @ 77°F

TOTAL HARDNESS 64.27 mg/L as CaCO₃ TOTAL ALKALINITY 696.0 mg/L as CaCO₃

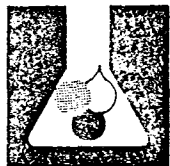
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	21.0	1.05		
MAGNESIUM - Mg ++	1.59	0.13		
SODIUM - Na +	1593.0	69.26		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	2.95	0.11	70.55	
BICARBONATE - HCO ₃ -	684.0	11.21		
CARBONATE - CO ₃ --	12.0	0.40		
SULFATE - SO ₄ --	120.0	2.50		
CHLORIDE - CL -	2024.2	57.02	71.13	
TOTAL DISSOLVED SOLIDS	4400			

← MILLEQUIVALENTS PER LITER →



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

JUN 2 1975

(801) 722-2254

LABORATORY NUMBER W-2248
SAMPLE TAKEN _____
SAMPLE RECEIVED 5-5-75
RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION

COMPANY Mapco Production Inc. LEASE Marshall FIELD NO. _____
FIELD _____ COUNTY _____ STATE _____ WELL NO. 1-20
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

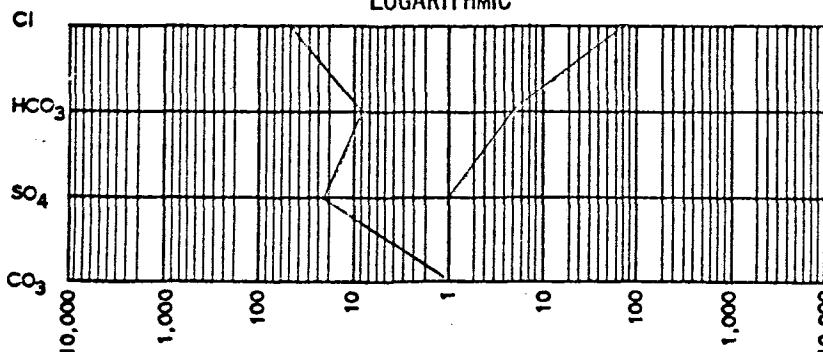
SPECIFIC GRAVITY @60/60° F. 1.0029 pH 7.60 RES. 1.20 OHM METERS @ 77°F

TOTAL HARDNESS 334.78 mg/L as CaCO₃ TOTAL ALKALINITY 560.0 mg/L as CaCO₃

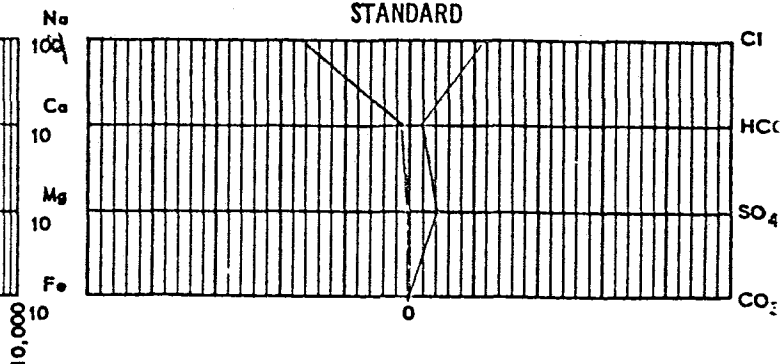
CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	120.0	6.0		
MAGNESIUM - Mg ++	4.40	0.36		
SODIUM - Na +	1892.0	82.26		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	9.5	0.34	88.96	
BICARBONATE - HCO ₃ -	560.0	9.18		
CARBONATE - CO ₃ -	0	0		
SULFATE - SO ₄ -	1100	22.92		
CHLORIDE - CL -	2099.2	59.33	91.23	
TOTAL DISSOLVED SOLIDS	5920			

MILLEQUIVALENTS PER LITER

LOGARITHMIC

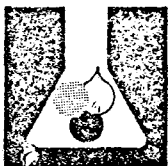


STANDARD



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORY

P.O. Box 119

Fort Duchesne, Utah 84026

JUN 2 1975

Birch
Mule } Post
St. Helena } H₂O
Quality

LABORATORY NUMBER W-2246
SAMPLE TAKEN _____
SAMPLE RECEIVED 5-5-75
RESULTS REPORTED 5-6-75

SAMPLE DESCRIPTION _____ FIELD NO. _____
COMPANY Mapco Production Inc. LEASE Allred WELL NO. 1-16
FIELD _____ COUNTY _____ STATE _____
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS _____

SAMPLE TAKEN BY Floyd Collett

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0062 pH 8.15 RES. 7.50 OHM METERS @ 77°F

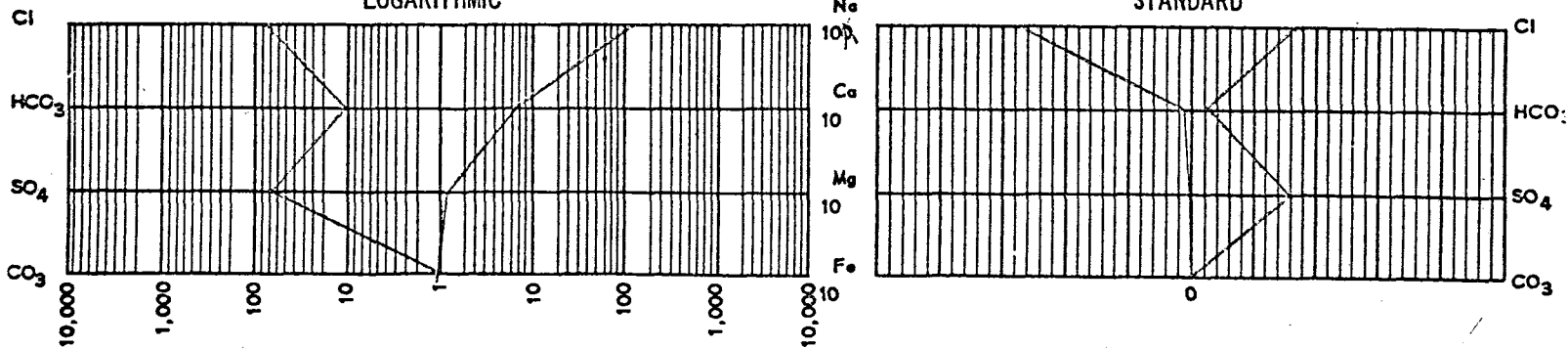
TOTAL HARDNESS 451.16 mg/L as CaCO₃ TOTAL ALKALINITY 670.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	150.0	7.5		
MAGNESIUM - Mg ++	16.0	1.31		
SODIUM - Na +	3100.0	134.78		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	6.0	0.21	143.80	
BICARBONATE - HCO ₃ --	670.0	10.98		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	3820.0	79.58		
CHLORIDE - CL -	3003.8	84.61	175.17	
TOTAL DISSOLVED SOLIDS	10800			

← MILLEQUIVALENTS PER LITER →

LOGARITHMIC

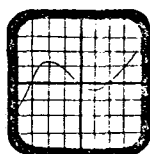
STANDARD



ANALYST _____

CHECKED _____

JUN 16 1975



WESTERN STANDARD LABORATORIES, INC.

1465 West 820 North Provo, Utah 84601 (801)377-7787

WSL

LABORATORY NUMBER W6-87
 SAMPLE TAKEN _____
 SAMPLE RECEIVED 6-6-75
 RESULTS REPORTED 6-11-75

SAMPLE DESCRIPTION FIELD NO. _____
 COMPANY Mapco Prod. Inc. LEASE _____ WELL NO. 1-34
 SEC. _____ TWP. _____ RGE. _____ SUR. _____
 DISTRICT _____ FIELD _____ COUNTY _____ STATE _____
 SAMPLE TAKEN FROM _____
 PRODUCING FORMATION _____ TOP _____
 REMARKS Berrett

SAMPLE TAKEN BY _____

CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.005 pH 6.95 RES. 0.82 OHM METERS @ 77°F

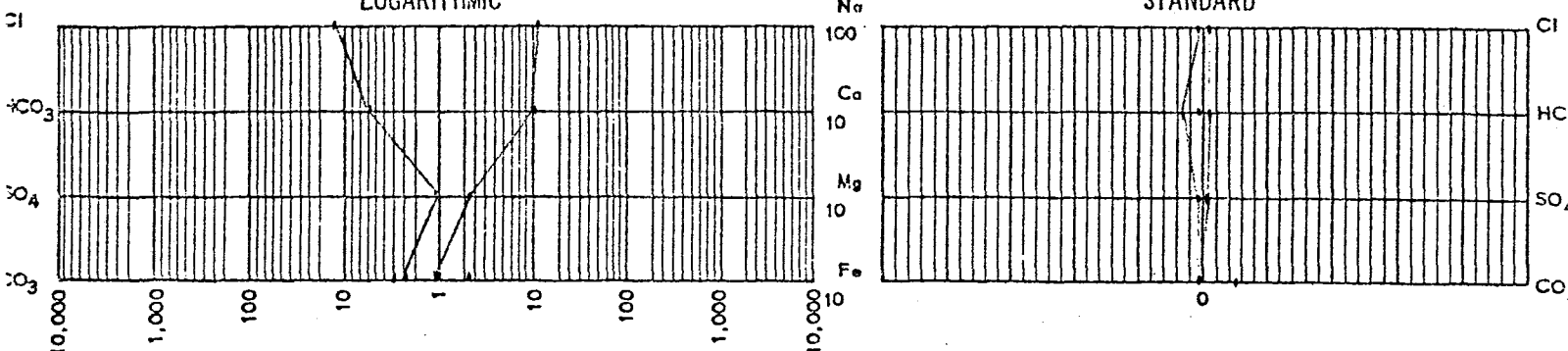
TOTAL HARDNESS Mg/L as CaCO₃ 953 TOTAL ALKALINITY Mg/L as CaCO₃ 671

CONSTITUENT	MILLIGRAMS PER LITER Mg/L.	MILLEQUIVALENTS PER LITER MEQ/L	REMARKS
CALCIUM - Ca ++	326	16.3	
MAGNESIUM - Mg ++	33.1	2.7	
SODIUM - Na +	589	25.6	
BARIUM (INCL. STRONTIUM) - Ba ++			
TOTAL IRON - Fe ++ AND Fe +++	1.7	.1	
BICARBONATE - HCO ₃ -	324	5.3	
CARBONATE - CO ₃ --	85	2.8	
SULFATE - SO ₄ --	4.4	.1	
CHLORIDE - CL -	1295	36.5	
TOTAL DISSOLVED SOLIDS	3579		

MILLEQUIVALENTS PER LITER

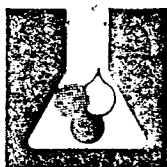
LOGARITHMIC

STANDARD



ANALYST _____

CHECKED _____



LITE RESEARCH LABORATORIES

P.O. Box 119

Fort Duchesne, Utah 84026

AUG 22 1975

(801) 722-2254

LABORATORY NUMBER W-2594
SAMPLE TAKEN _____
SAMPLE RECEIVED 8-19-75
RESULTS REPORTED 8-19-75

SAMPLE DESCRIPTION
COMPANY Mapco LEASE Olsen FIELD NO. _____
FIELD _____ COUNTY _____ STATE _____ WELL NO. 1-27
SAMPLE TAKEN FROM _____
PRODUCING FORMATION _____ TOP _____
REMARKS

Treater

SAMPLE TAKEN BY _____

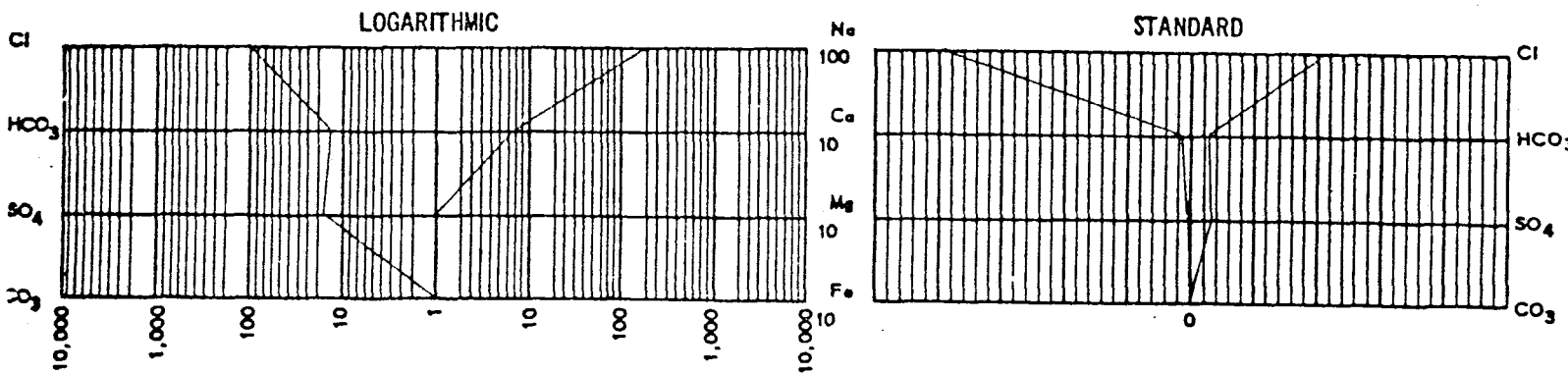
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.0049 pH 7.80 RES. 0.95 OHM METERS @ 77° F

TOTAL HARDNESS 494.15 mg/L as CaCO₃ TOTAL ALKALINITY 944.0 mg/L as CaCO₃

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca ++	158.0	7.90		
MAGNESIUM - Mg ++	12.1	0.99		
SODIUM - Na +	4500.0	195.65		
BARIUM (INCL. STRONTIUM) - Ba ++	0	0		
TOTAL IRON - Fe ++ AND Fe +++	27.8	0.99	205.54	
BICARBONATE - HCO ₃ --	944.0	15.48		
CARBONATE - CO ₃ --	0	0		
SULFATE - SO ₄ --	880.0	18.33		
CHLORIDE - CL -	3598.9	101.38	135.19	
TOTAL DISSOLVED SOLIDS	8320.0			

MILLEQUIVALENTS PER LITER



ANALYST _____

CHECKED _____



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

July 27, 1983

Mapco Production Company
Roosevelt, UT 84066

Re: Well #Allred 2-16
Sec. 16, T. 1S, R. 3W.
&
Well #Birch 2-35
Sec. 35, T. 1S, R. 5W
Duchesne County, Utah

Gentlemen:

During a recent inspection of the Allred 2-16 well, it was noted that the pit was full of oil and appeared to be in poor shape. It is therefore recommended that this pit be cleaned up or burned off.

Also, for the past few months, the facility or pump house on the Birch 2-35 well has been padlocked. I called your office on 7-19-83, to inform your personnel that we would be inspecting said well on the 20th or 21st of July and needed to get into the pump house to record pressures and rates. I was told that I would have to call your office before every inspection to get someone to unlock the facility. Because of our usually tight time schedule, we were unable to call your office on the 20th, and we just missed the water hauler and the facility was still locked. Since the Environmental Protection Agency requires our Division to perform complete inspections, please advise as to how this situation can be solved and if it would be possible to obtain a key from your office to unlock the facility.

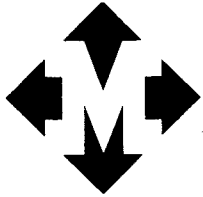
Your prompt attention and response to the above mentioned matters will be appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

THALIA R. PRATT
UIC SPECIALIST

TRP/tp



mapco
INC.

PRODUCTION DIVISION

August 10, 1983

State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

RE: Allred 2-16
Sec. 16, T 1 S, R 3 W.
&
Birch 2-35
Sec. 35, T 1 S, R 5 W.
Duchesne County, Utah

Thalia Pratt:

This is in regard to your letter of 7-27-83 concerning inspection of Allred 2-16 and Birch 2-35.

The Birch 2-35 house is locked because of recent thefts. If you need to inspect said building just call from town or our doghouse at the S. Heirs 1-36. There can usually be someone on location to let you in within 10 minutes during working hours.

The pit on the Allred 2-16 has accumulated some oil on it but still doesn't have enough on it to pay to hot oil it and recover the oil. It has been our practice to hot oil these pits when there is enough oil to justify doing it even though this recovery just pays the hot oil bill. This has been done because of numerous complaints about the smoke caused by burning the pit.

Yours truly,

Darwin Kulland
Dist. Supt.

DK/sf

100-100000-100000
100-100000-100000
100-100000-100000

100-100000-100000
100-100000-100000

APR 21 1983



Winta Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

WATER ANALYSIS REPORT

(801) 722-2532

COMPANY Mapco Oil Co. ADDRESS Roosevelt, Utah DATE 4-15-83
 SOURCE #3 Sample-Aldridge House DATESAMPLED _____ ANALYSIS NO. W-481

Analysis	Mg/L	*Meq/L
1. PH <u>7.30</u>		
2. H ₂ S (Qualitative) _____		
3. Specific Gravity <u>1.000</u>		
4. Dissolved Solids <u>957.35</u>		
5. Suspended Solids _____		
6. Phenolphthalein Alkalinity (CaCO ₃) <u>0</u>		
7. Methyl Orange Alkalinity (CaCO ₃) <u>250</u>		
8. Bicarbonate (HCO ₃) <u>305</u>	HCO ₃ <u>305</u>	÷ 61 <u>5.00</u> HCO ₃
9. Chlorides (Cl) <u>172</u>	Cl <u>172</u>	÷ 35.5 <u>4.85</u> Cl
10. Sulfates (SO ₄) <u>203</u>	SO ₄ <u>203</u>	÷ 48 <u>4.23</u> SO ₄
11. Calcium (Ca) <u>269</u>	Ca <u>269</u>	÷ 20 <u>13.45</u> Ca
12. Magnesium (Mg) <u>121</u>	Mg <u>121</u>	÷ 12.2 <u>9.92</u> Mg
13. Total Hardness (CaCO ₃) <u>1170</u>		
14. Total Iron (Fe) <u>.30</u>		
15. Barium (Qualitative) _____		
16. Specific Conductivity (RW) <u>1580</u>	mmHos <u>1580</u>	ppm <u>12593</u>
*Milli equivalents per liter	6.00 Resistivity <u>76</u>	F

RECEIVED
 450
 OCT 10 1983
 DIVISION OF
 OIL, GAS & MINING

PROBABLE MINERAL COMPOSITION

13.45	Ca	←	HCO ₃	5.00
9.92	Mg	→	SO ₄	4.23
0	Na	→	Cl	4.85

Saturation Values

Ca CO₃Ca SO₄ · 2H₂OMg CO₃

Distilled Water 20° C

13 Mg/L

2,090 Mg/L

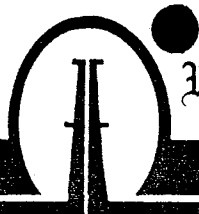
103 Mg/L

Remarks: _____

NA= 0 mg/l

Compound	Equiv. Wt. X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04	5.00		405.20
Ca SO ₄	68.07	4.23		287.94
Ca Cl ₂	55.50	4.22		234.21
Mg (HCO ₃) ₂	73.17	0		0
Mg SO ₄	60.19	0		0
Mg Cl ₂	47.62	.63		.30
Na HCO ₃	84.00	0		0
Na ₂ SO ₄	71.03	0		0
Na Cl	58.46	0		0

Thank you for the business:



Minto Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

WATER ANALYSIS REPORT

(801) 722-2532

COMPANY Mapco Oil Co. ADDRESS Roosevelt, Utah DATE: 4-15-83
SOURCE #1 Sample-F. Aldridge DATE SAMPLED _____ ANALYSIS NO. W-479

Analysis	Mg/L	*Meq/L
1. PH <u>7.30</u>		
2. H ₂ S (Qualitative) _____		
3. Specific Gravity <u>1.005</u>		
4. Dissolved Solids <u>1233.47</u>		
5. Suspended Solids _____		
6. Phenolphthalein Alkalinity (CaCO ₃) <u>0</u>		
7. Methyl Orange Alkalinity (CaCO ₃) <u>25</u>		
8. Bicarbonate (HCO ₃) <u>30.5</u>	HCO ₃ <u>30.5</u> ÷ 61	<u>.50</u> HCO ₃
9. Chlorides (Cl) <u>568</u>	Cl <u>568</u> ÷ 35.5	<u>16.00</u> Cl
10. Sulfates (SO ₄) <u>215</u>	SO ₄ <u>215</u> ÷ 48	<u>4.48</u> SO ₄
11. Calcium (Ca) <u>982</u>	Ca <u>982</u> ÷ 20	<u>49.10</u> Ca
12. Magnesium (Mg) <u>149</u>	Mg <u>149</u> ÷ 12.2	<u>12.25</u> Mg
13. Total Hardness (CaCO ₃) <u>3070</u>		
14. Total Iron (Fe) <u>.15</u>		
15. Barium (Qualitative) _____		
16. Specific Conductivity (RW) <u>3700</u>	mmHos <u>3700</u>	ppm <u>24489</u>
*Milli equivalents per liter	2.20 Resistivity <u>72</u> F	

450' Deep

PROBABLE MINERAL COMPOSITION

Ca	←	HCO ₃	→	Ca
Mg	←	SO ₄	→	Mg
Na	←	Cl	→	Na

49.10
12.25
0

.50
4.48
16.00

Saturation Values

Ca CO₃

Ca SO₄ · 2H₂O

Mg CO₃

Distilled Water 20° C

13 Mg/L

2,090 Mg/L

103 Mg/L

Compound	Equiv. Wt. X	Meq/L	= Mg/L
Ca (HCO ₃) ₂	81.04	.50	40.52
Ca SO ₄	68.07	4.48	304.95
Ca Cl ₂	55.50	16.00	888.00
Mg (HCO ₃) ₂	73.17	0	0
Mg SO ₄	60.19	0	0
Mg Cl ₂	47.62	0	0
Na HCO ₃	84.00	0	0
Na ₂ SO ₄	71.03	0	0
Na Cl	58.46	0	0

Remarks:

NA= 0 mg/l

Thank you for the business:



Hinta Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

WATER ANALYSIS REPORT

(801) 722-2532

COMPANY Mapco Oil Co. ADDRESS Roosevelt, Utah DATE: 4-15-83
SOURCE #2 Sample-By Thompson 2-35 DATE SAMPLED _____ ANALYSIS NO. W-480

Analysis

Mg/L

*Meq/L

1. PH 7.10

2. H₂S (Qualitative) _____

3. Specific Gravity 1.000

4. Dissolved Solids 529.53

5. Suspended Solids _____

6. Phenolphthalein Alkalinity (CaCO₃) 0

7. Methyl Orange Alkalinity (CaCO₃) 275

8. Bicarbonate (HCO₃) 335.50

9. Chlorides (Cl) 53.62

10. Sulfates (SO₄) 0

11. Calcium (Ca) 433

12. Magnesium (Mg) 131

13. Total Hardness (CaCO₃) 1620

14. Total Iron (Fe) .35

15. Barium (Qualitative) _____

16. Specific Conductivity (RW) 750

*Milli equivalents per liter

HCO₃ 335.50 ÷ 61 5.50 HCO₃
Cl 53.62 ÷ 35.5 1.51 Cl
SO₄ 0 ÷ 48 0 SO₄
Ca 433 ÷ 20 21.65 Ca
Mg 131 ÷ 12.2 10.74 Mg

mmHos 750 ppm 5978

10.0 Resistivity 71 F

PROBABLE MINERAL COMPOSITION

Ca	←	HCO ₃	5.50
Mg	→	SO ₄	0
Na	→	Cl	1.51

Saturation Values

Ca CO₃

Ca SO₄ · 2H₂O

Mg CO₃

Distilled Water 20°C

13 Mg/L

2,090 Mg/L

103 Mg/L

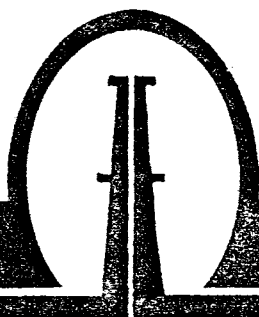
Compound	Equiv. Wt. X	Meq/L	= Mg/L
Ca (HCO ₃) ₂	81.04	5.50	445.72
Ca SO ₄	68.07	0	0
Ca Cl ₂	55.50	1.51	8381
Mg (HCO ₃) ₂	73.17	0	0
Mg SO ₄	60.19	0	0
Mg Cl ₂	47.62	0	0
Na HCO ₃	84.00	0	0
Na ₂ SO ₄	71.03	0	0
Na Cl	58.46	0	0

Remarks:

NA= 0 mg/l

Thank you for the business:

MAR 14 1983



Hinta Research and Analytical Services

P.O. BOX 1488 - ROOSEVELT, UTAH 84066

James F. Smith

(801) 722-2532

Crude Oil Analysis Report:

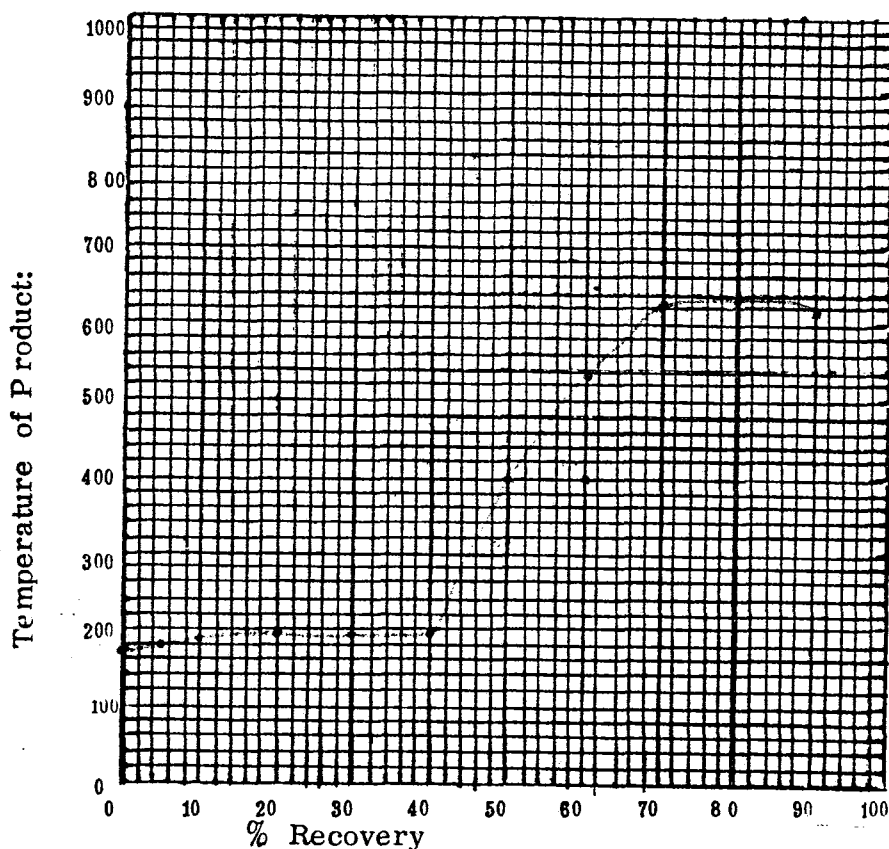
Company Name: Mapco Oil Co. Date Sampled: 2-22-83 Date: 2-28-83
 Sample Point: 1-14 E Location: _____
 Field: _____ County: Duchesene, Utah
 Depth: _____ URAS Log Number: 0-441

A.P.I. Gravity @ 60/60 f 36.7 B.S.W. % by Volume: 13.0 %
 _____ Vis at _____
 _____ Vis at _____

Metals:	PPM:
Sodium	1032
Iron	84
Lead	0

% Distillation:	°F
I.B.P.	172
5 %	180
10 %	188
20 %	196
30 %	196
40 %	196
50 %	400
60 %	537
70 %	622
80 %	632
90 %	626
95 %	
End Point	634
% Recovery	94.0
% Residue	5.5
% Loss	0.5

Distillation Graph:



Comments: _____

Analyst: _____

pour point 78° F

Gas
Chromatography

Hydrogen
Sulfite

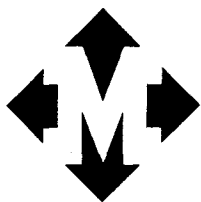
Oil
Analysis

Well
Meter
Calibrations



(801) 722-2254

ANALYST _____



MAPCO

PRODUCTION COMPANY

October 12, 1983

State of Utah
Division of Oil, Gas & Mining
Room 4241 State Office Building
Salt Lake City, Utah 84114

Reference: Allred #2-16
Section 16-1S-3W
Duchesne County, Utah

RECEIVED
OCT 19 1983

**DIVISION OF
OIL, GAS & MINING**

Gentlemen:

In compliance with Rule I-4 and Rule I-5 - "Authorization for Existing Class II Injection Wells", please find enclosed our application and corresponding data accompanying our application as listed below:

- 1) Form No. DOGM-UIL-1 (Revised 1982) - "Application for Disposal Well. (6 Copies).
- 2) Form No. DOGM-UIC-3B (Revised 1982) - "Annual Fluid Injection Report" (6 Copies).
- 3) Form DOGM-UIC-2 (Revised 1982) - "Completion & Test Data By Producing Formation". (6 Copies).
- 4) Water Analysis from wells to be injected in subject well (1 Copy of each well).
- 5) Water Analysis of wells producing within one mile of subject well (1 Copy of each well).
- 6) Plat showing subject well and all known oil & gas wells, abandoned, drilling and dry holes within 1/2 mile, together with the name of operator.
- 7) Borehole Compensated Sonic Log - Gamma Ray (1 Copy).
- 8) Schematic drawing of subsurface. (1 Copy).

LETTER TO STATE OF UTAH
FROM TAMARA J. BROWN
PAGE 2

If additional information is needed to complete this application, please do not hesitate to call.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Tamara Jeanne Brown", followed by a long horizontal flourish line.

Tamara Jeanne Brown
Production Technician

/tjb

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
MAPCO PRODUCTION COMPANY
ADDRESS 705 S. Elgin, Box 2115
Tulsa, Oklahoma ZIP 74101
INDIVIDUAL PARTNERSHIP CORPORATION ☒
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE ALLRED #2-16 WELL
SEC. 16 TWP. 1S RANGE 3W
Duchesne COUNTY, UTAH

CAUSE NO. 139-9

ENHANCED RECOVERY INJ. WELL ☐
DISPOSAL WELL ☒
LP GAS STORAGE ☐
EXISTING WELL (RULE I-4) ☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name ALLRED	Well No. #2-16	Field Altamont	County Duchesne
Location of Enhanced Recovery Injection or Disposal Well NE NE Sec. 16 Twp. 1S Rge. 3W			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date 11-23-82	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile 420	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		State What
Location of Injection Source(s) 470.45' FNL & 1,292' FEL Sec. 16-T1S-R3W	Geologic Name(s) and Depth of Source(s) Wasatch & Green River Fm.		
Geologic Name of Injection Zone Duchesne River & Uintah Fm.	Depth of Injection Interval 3593' to 4424'		
a. Top of the Perforated Interval: 3593'	b. Base of Fresh Water: 420	c. Intervening Thickness (a minus b) 3,173'	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO			
Lithology of Intervening Zones Clastic sandstones and shales			
Injection Rates and Pressures Maximum 5000 B/D 1500 PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. Division of Oil & Gas Mining - 6 copies of Application and 1 complete set of attachments			

State of Oklahoma

County of Tulsa

Before me, the undersigned authority, on this day personally appeared Tamara Jeanne Brown known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 17th day of Oct, 1983

SEAL

My commission expires 9-27-86

Notary Public in and for Tulsa, Ok

(OVER)

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9-5/8"	321'	200	Surface	Returns
Intermediate	--	--	--	--	--
Production	7"	4640'	660	Surface	Returns
Tubing	2-7/8"	3493	Name - Type - Depth of Tubing Packer Baker - Model N @ 3493'		
Total Depth 4640	Geologic Name - Inj. Zone Utah-Duchesne		Depth - Top of Inj. Interval 3593'		Depth - Base of Inj. Interval 4424'

PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

COUNTY
LEASE NO.

API NO. _____

640 Acres
N

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

COUNTY Duchesne SEC. 16 TWP. 1S RGE. 3W

COMPANY OPERATING MAPCO Production Co.

OFFICE ADDRESS 705 S. Elgin-Suite 2115

TOWN Tulsa STATE ZIP Oklahoma 74101

FARM NAME Allred WELL NO. #2-16

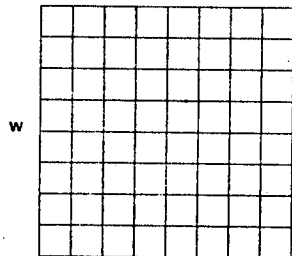
DRILLING STARTED 3-1 19 75 DRILLING FINISHED 4-12 19 75

DATE OF FIRST PRODUCTION N/A COMPLETED N/A

WELL LOCATED NW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$

850 FT. FROM SL OF $\frac{1}{4}$ SEC. & 28 FT. FROM WL OF $\frac{1}{4}$ SEC.

ELEVATION DERRICK FLOOR 6325 GROUND 6315



Locate Well Correctly
and Outline Lease

TYPE COMPLETION

Single Zone _____

Multiple Zone XX

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
None			None		

CASING & CEMENT

Casing Set				Ceg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
9-5/8'	36&40	K-55	321'	1000	200		Surface
7"	23	K-55	4640	1000	660		350'

TOTAL DEPTH _____

PACKERS SET
DEPTH _____

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	1	2	3
Uintah & Duchesne River			
SPACING & SPACING ORDER NO.	D.N.A.		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Injection Well		
PERFORATED	3593-4424'		
	129' in		
INTERVALS	33 intervals		
ACIDIZED?	No		
FRACTURE TREATED?	No		

INITIAL TEST DATA

Date			
Oil, bbl./day			
Oil Gravity			
Gas, Cu. Ft./day	CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.			
Water-Bbl./day			
Pumping or Flowing			
CHOKE SIZE			
FLOW TUBING PRESSURE			

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone (918) 599-4007 James R. Ben
Name and title of representative of company

Subscribed and sworn before me this 17th day of October, 19 83

April Herbert
Notary

9-27-86
Commission Expires

INVENTORY OF AUTHORIZED EXISTING DISPOSAL WELLS

[illegible]

Date _____

EXHIBIT "B"

The following lists represent those lessees within 1/2 mile of each of the proposed water disposal wells.

MAPCO, Allred WDW No. 2-16

- ✓ Flying Diamond Corporation
572 E. 2nd Street
Salt Lake City, Utah 84102
- ✓ Barber Oil Exploration Inc.
2627 Tenneco Building
Houston, Texas 77002
- ✓ Altex Oil Corporation
P. O. Box 666
Vernal, Utah 84078
- ✓ Chevron Oil Company
P. O. Box 599
Denver, Colorado 80201
- ✓ Tenneco Oil Company
P. O. Box 2511
Houston, Texas 77001
- ✓ Shell Oil Company
P. O. Box 1875
Houston, Texas 77001

MAPCO, Birch WDW No. 2-35

- ✓ Tenneco Oil Company
P. O. Box 2511
Houston, Texas 77001
- ✓ Barber Oil Exploration, Inc.
2627 Tenneco Building
Houston, Texas 77002
- ✓ Altex Oil Corporation
P. O. Box 666
Vernal, Utah 84078
- ✓ Walter Duncan
Box 211
LaSalle, Illinois 61301
- ✓ Vincent Duncan
Box 211
LaSalle, Illinois 61301
- ✓ Raymond Duncan
Box 211
LaSalle, Illinois 61301
- ✓ Gulf Oil Corporation
Box 2100
Houston, Texas 77001
- ✓ Shell Oil Company
Box 1875
Houston, Texas 77001

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

* * * * *

Operator: Sumner Well No. Abland 2-16
 County: Quincy T 15 R 34 Sec. 16 API# 43-013-30361
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☐

	YES	NO
UIC Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Source	<u>Thermon water</u>	

Analysis of Injection Fluid	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	TDS <u>27,000+</u>
Analysis of Water in Formation to be injected into	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	TDS <u>11,178</u>

Known USDW in area	<u>Unit 4</u>	Depth	<u>420</u>
Number of wells in area of review	<u>1</u>	Prod.	<u>1</u>
		Water	<u>0</u>
		Inj.	<u>0</u>

Aquifer Exemption	Yes <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
-------------------	------------------------------	--

Mechanical Integrity Test	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
---------------------------	---	-----------------------------

Date 11-5-72 Type Pressure

Comments: TOC 350

* failed to hold

Reviewed by: CTF

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

RULE I-9

NOTICE OF TRANSFER OF OWNERSHIP

Classification of Well Transferred: Disposal Well ☒ Enhanced Recovery Injection Well ☐Name of Present Operator MAPCO, Inc., Production Co.Address P.O. Box 1360 Roosevelt, Utah 84066

Well Being Transferred:

Name: Allred 2-16A3Location: Sec. 16 Twp. 1-S Rng. 3-W County DuchesneOrder No. Authorizing Injection Cause No. 139-9 & Rule C-11 Date 1-23-75Zone Injected Into: Lower Duchesne River-Uinta formations 3593' to 4424'Effective Date of Transfer October 1, 1983

Darwin Kulland
Signature JOY MAPCO Prod Co.

Date

Name of New Operator Linmar EnergyAddress P.O. Box 1327 Roosevelt, Utah 84066

LINMAR ENERGY CORP by E.B. Whitman
Signature of New Operator

NOVEMBER 9, 1983
Date

FOR DOGM USE ONLY

It is acknowledged by the Division of Oil, Gas, and Mining that Linmar Energy Corp. is the new operator of the above-named well and may:

1. continue to inject fluids as authorized by Order No. 139-9 & UIC Rules & Regulations
2. not inject fluids until after Notice, Hearing, and Approval by the Division

Signature

Dean B. Fright

Date

11/18/83



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 6, 1985

Linmar Energy Corporation
7979 East Tufts Ave. Pkwy. #604
Denver, Colorado 80237

Gentlemen:

RE: Well # Allred 2-16A3, Section 16, Township 1 South, Range 3
West, Duchesne County, Utah

An inspection of the above mentioned saltwater disposal well on November 26, 1985 revealed that the injection pressure is now at 2200+ psi. Not only does this exceed the authorized injection pressure of 1500 psi, but if three quarters of a pound per foot is allowed for the pressure or weight of the hydrostatic head, the actual injection pressure is approximately 4895 psi. A pressure this high could result in formation break down.

You are therefore requested to check the Murphy gauge (2200 psi.) and the guage on the tubing at the well head (2500 psi.) and if these guages are correct to shut the well in and cease injecting until corrective action has been taken.

Thank you,

Cleon B. Feight
Cleon B. Feight
UIC Manager

mfp
0009U-36

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE
(Other instructions on
reverse side)

30

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Salt Water Disposal Well

2. NAME OF OPERATOR

LINMAR ENERGY CORPORATION

3. ADDRESS OF OPERATOR

P.O. BOX 1327, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
at surface

470' FNL & 1292' FEL
Section 16, T. 1 S., R. 3 W.

14. PERMIT NO.

43-013-30361

15. ELEVATIONS (Show whether OF, RT, OR, etc.)

6315' G.L.

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Allred

9. WELL NO.

2-16A3

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLK. AND
SUBDIVISION OR AREA

Sec. 16, T1S, R3W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

PULL OR ALTER CASING

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

REPAIR WELL

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

DUCHEMNE AVE. - Uinta

Acidize Wasatch perforations from 3593'-4424' with 1500 gals.

15% HCl on January 24, 1986.

RECEIVED
FEB 28 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE Division Engineer

DATE January 31, 1986

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

LINMAR ENERGY CORPORATION

3. ADDRESS OF OPERATOR

P.O. BOX 1327, ROOSEVELT, UTAH 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

470' FNL & 1292' FEL
Section 16, T. 1 S., R. 3 W.

14. PERMIT NO.

43-013-30361

15. ELEVATIONS (Show whether OF, AT, OR, etc.)

6315' G.L.

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Allred

9. WELL NO.

2-16A3

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLK. AND
SUBST. OR AREA

Sec. 16, T1S, R3W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

FULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

(SEE ATTACHED)

RECEIVED
MAY 01 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature]

TITLE DIVISION ENGINEER

DATE APRIL 30, 1986

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

LINMAR ENERGY CORPORATION

P.O. Box 1327
Roosevelt, Utah 84066

(801) 722-4546

Linmar Energy proposes to perform a step-rate test on the Allred 2-16A3 SWD well to determine the actual breakdown pressure and frac gradient of the existing perforations. The breakdown pressure that is established will be used to determine the maximum injection pressure that will be allowed during SWD and stimulation operations.

The test will be done immediately prior to stimulating the well with a 50% acid, 50% solvent mixture. The maximum pressure to be used during the stimulation will be less than the breakdown pressure established by the step-rate test.

Procedure:

1. RU Dowell.
2. Establish, record and plot rates and pressures for injection pressures from 1200 psi through the breakdown pressure in 300 psi increments.
3. Stimulate the well with 6800 gallons 'DAD Acid' (50% HCl acid and 50% solvent) containing corrosion inhibitor and a dispersant. 3400 lbs of rock salt will be used for diversion.
4. Return the well to SWD.

Stipulations of Approval

- 1) Notify the State DOGM office prior to commencing operations to allow witnessing of the test.
- 2) Steps must be of equal time length.
- 3) Either rate or pressure must be held constant during each time step.
- 4) The step-rate test should include a minimum of 4 data points below the parting pressure and a minimum of 3 data points above the parting pressure, this procedure may require changing the starting pressure and increments in step 2 of the above procedure.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 5/2/86
BY: [Signature]

①

Linnmar Step Rate test on Allred 2-16 A3

NW NE 16 1 & 30V.

w/ Ed Wicker, Doug Howard, Mike Dunin, Carroll Estes.

Rate	PSI	Time
.25 bpm	1100	0
	1225	5
	1275	10
	1300	15
.50 bpm	1300	0
	1350	5
	1400	10
	1400	15
.75 bpm	1400	0
	1475	5
	1500	10
	1500	15
1.0 bpm	1525	0
	1550	5
	1600	10
	1600	15
1.25 bpm	1600	0
	Chart malf.	5
	1550	10
	1575	15

RECEIVED


JUL 22 1986

DIVISION OF
GAS & MINING

Rate	PSI	Time
1.5 hpm	1550	0
	1600	5
	1625	10
	1675	15
2.0 hpm	1725	0
	1750	5
	1750	10
	1750	15
2.5 hpm	1800	0
	1800	5
	1800	10
	1800	15
3.0 hpm	1850	0
	1900	5
	1925	10
	1925	15
3.5 hpm	2025	0
	2025	5
	2025	10
	2025	15
3.75 hpm	2050	0
	2050	5
	2050	10
	2050	15

most hpm we could get from truck, had to switch out trucks for higher rate

Rate	PSI	Time
5.0 bpm	2275	0
	2275	5
	2300	10
	2300	15
6.0 bpm	2500	0
	2500	5
	2500	10
	2500	13 (out of water)
8.0 bpm (#1)	3000	0
	3050	1
	3075	2
	3075	3
	3075	4 ← started to go
	3050	5
	3050	6
	3050	7
	3025	8
	3050	9
	3000	10 (out of water)

Rate	PSI	Time
8.0 bpm (#2)	2975	0
	3000	1
		2
		3
		4
		5
	3025	6
	3000	7
8.5 bpm	3000	8
	3200	9
	3200	10
9.0 bpm	3300	11
	3350	12 out of water

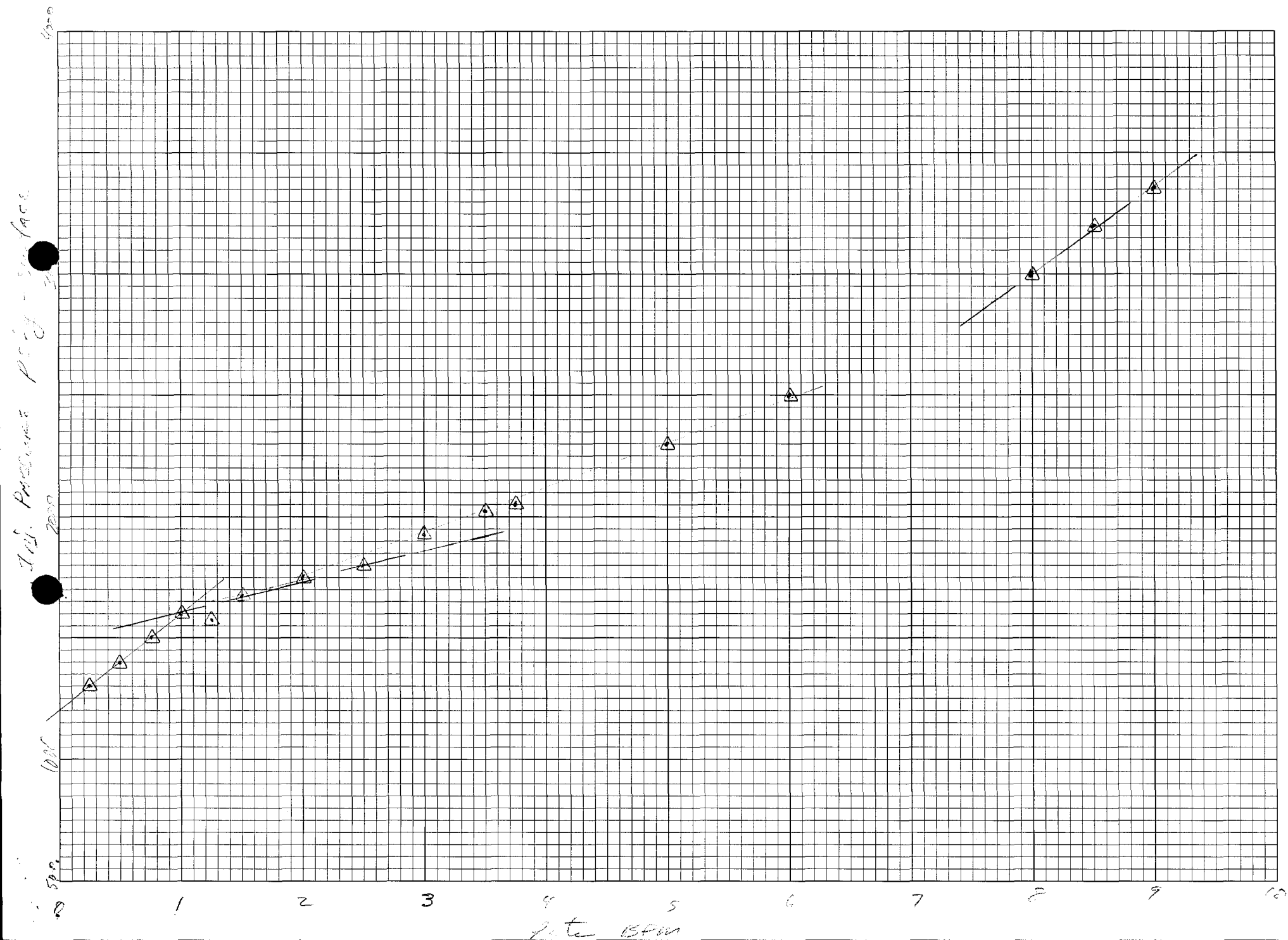
21 July 86.

Del,

As I was going over this, it looks like it was starting to go at 1:25 bpm but the chart malfunctioned and we're not sure of the next several readings. Either way, it still didn't show fracturing like it should have.

Let me know if I can help anymore with this.

Carol



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT TO DIVISION OF
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Salt Water Disposal Well		3. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR LINMAR ENERGY CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. BOX 1327, ROOSEVELT, UTAH 84066		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 470' FNL & 1292' FEL Section 16, T. 1 S., R. 3 W.		8. FARM OR LEASE NAME ALLRED
14. PERMIT NO. 43-013-30361		9. WELL NO. 2-16A3
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6315' G.L.		10. FIELD AND POOL, OR WILDCAT ALTAMONT
		11. SEC., T., R., W., OR BLK. AND SURVEY OR AREA SEC. 16, T1S, R3W
		12. COUNTY OR PARISH DUCHESSNE
		13. STATE UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>STEP RATE TEST</u>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Ran Step Rate Test and Acidized per Attached.

RECEIVED
JUL 23 1986
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED E. B. Wheeler TITLE Manager of Operations DATE July 22, 1986

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

LINMAR ENERGY CORPORATION
80 South Main Street
P.O. Box 1327

Allred 2-16A3
Salt Water Disposal
Step Rate Test
July 17, 1986

Performed by Dowell Schlumberger
Supervised by D. G. Howard, Linmar Energy Corp.
Witnessed by Carol Kubley, Utah Div. Oil, Gas, Mining

Produced water was injected into the formation at a fixed rate, for fifteen minute intervals, except as noted. The final pump pressure for each fifteen minute interval was as follows:

Injection Rate BPM =====	Injection Pressure PSI =====
0.25	1300
0.50	1400
0.75	1500
1.00	1600
1.25	1575
1.50	1675
2.00	1750
2.50	1800
3.00	1925
3.50	2025
3.75	2050
5.00	2300
6.00	2500 13 MINS
8.00	3000 10 MINS
8.00	3350 12 MINS

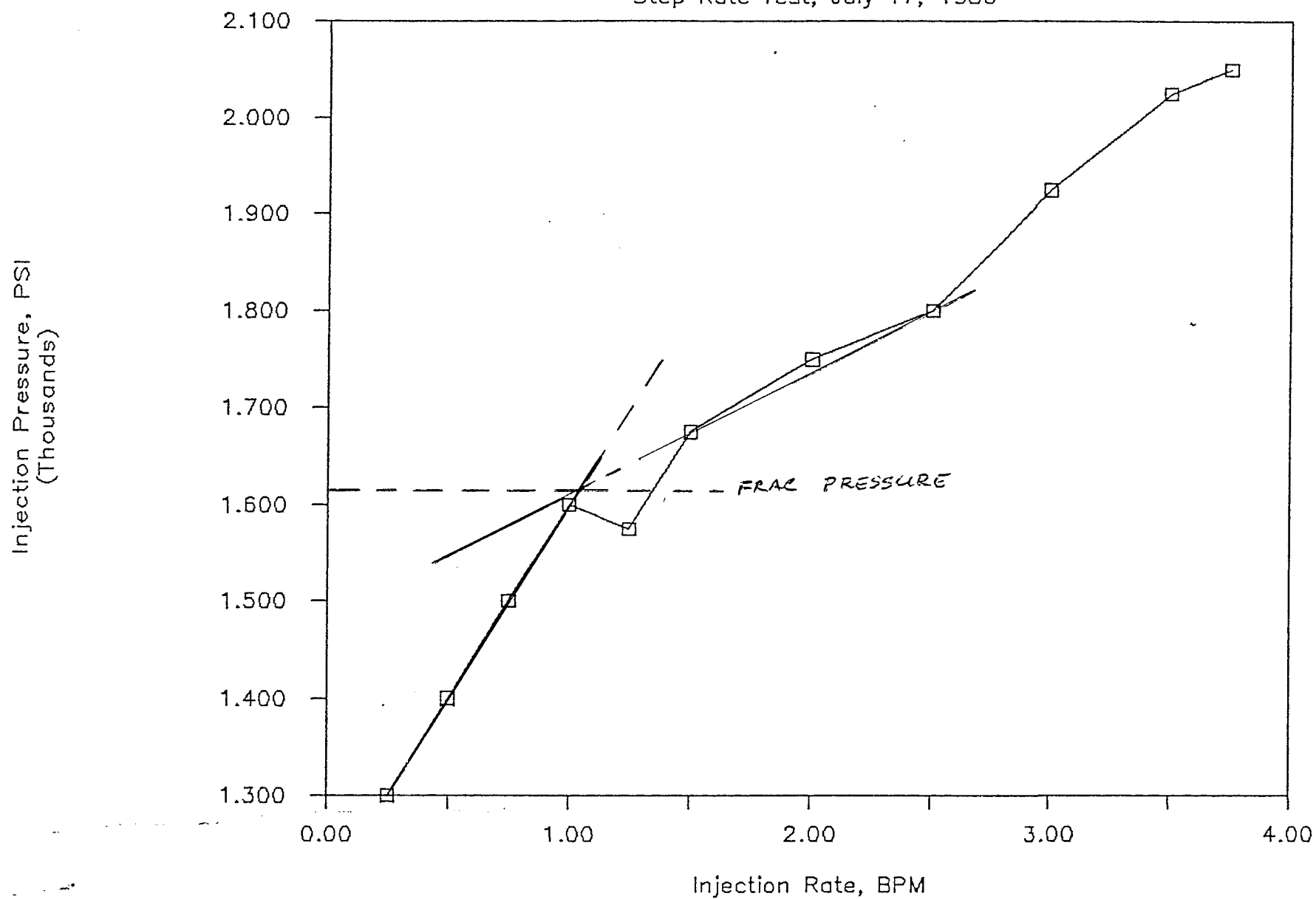
Injection rates are plotted on the attached graph, which indicates that the formation parting pressure is approximately 1,600 PSI. Linmar plans to maintain injection pressures at or below 1,500 PSI as previously approved. The subject step rate test does not justify any additional pressure.

Following the step rate test, on July 18, 1986, the well was acidized with 6,800 gallons of Dowell 15% DAD Acid Emulsion, using rock salt for diversion. Acid was displaced to packer with formation water. Maximum Treating pressure was 1,500 psi. Maximum rate was 2.0 bpm. ISIP=1,500 psi. Well was shut in overnight and returned to injection service.

EBW, 7/17/86

Allred 2-16A3 Salt Water Disposal

Step Rate Test, July 17, 1986





STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 28, 1986

Mr. Ed Whicker
Manager of Operations
Linmar Energy Corporation
P.O. Box 1327
Roosevelt, Utah 84066

Dear Mr. Whicker:

RE: Injection Well No. 2-16, 2-35, 2-32B4, Duchesne County, Utah

Recent field inspections conducted on the referenced injection wells, locations and facilities indicates that certain unacceptable operating practices are occurring. These observations and recommended correction actions necessary to effect compliance are listed below.

Allred 2-16, T1S, R3W, Section 16

- 1) Location should be cleaned up.
- 2) Need to install an adequate well identification sign.
- 3) The large pit on the location, which is nearly full of oily fluid and miscellaneous waste and trash, should not be used as a holding facility or evaporation pond. The pit is not adequately designed for such use nor is it permitted for this purpose. The pit fluid and trash should be removed and/or burned and the pit should be used only as an emergency or temporary holding facility in the future.

Birch 2-35, T1S, R5W, Section 35

This location should be cleaned up, trash removed, and pit burned off.

Russell 2-32B4, T2S, R4W, Section 32

- 1) Location should be cleaned up.

Page 2
Linmar Energy Corporation
July 28, 1986

- 2) Water leak inside the pump house should be repaired.
- 3) The lined pit is nearly overflowing. The fluid level in the pit should be lowered and maintained at a safe level below the liner top.

I realize these are difficult times for the oil industry and that it is economically difficult to justify any cash outlay that is not absolutely necessary. However, I feel these improvements would not require a significant expenditure of money other than the time and effort required to effect good operating procedures.

If you have any questions, please give me a call.

Sincerely,



Gil Hunt
UIC Program Manager

mfp
0021U-68,69

WATER ANALYSIS REPORT

DATE: 04-07-1987

RECEIVED
APR 16 1987

SAMPLE

COMPANY: LINMAR ENERGY

SOURCE:

NUMBER: 0003

LOCATION: ALLRED 2-16A3. IS 3W Sec. 16

DATE SAMPLED: 04-01-1987

ATTENTION: ED WHICKER

DIVISION OF
OIL, GAS & MINING

ANALYSIS

	MG/L
1. PH	8.78
2. SPECIFIC GRAVITY	
3. HYDROGEN SULFIDE	NOT DETERMINED
4. CARBON DIOXIDE	NOT DETERMINED
5. DISSOLVED OXYGEN	NOT DETERMINED
6. HYDROXYL (OH)	
7. CARBONATE (CO ₃)	48
8. BICARBONATE (HCO ₃)	1110.2
9. CHLORIDES (CL)	2900
10. SULFATES (SO ₄)	762.5
11. CALCIUM (CA)	
12. MAGNESIUM (MG)	40.08
13. SODIUM (NA)	4.86
14. BARIUM (BA)	
15. TOTAL IRON (FE)	NOT DETERMINED
	NOT DETERMINED
19. TOTAL HARDNESS (CACO ₃)	120.12

CARY HAYS
REEF CHEMICAL CO
RANGLEY COLO
1-303-675-5153

WATER ANALYSIS REPORT

COMPANY Pennzoil Company ADDRESS Neol, UT. DATE: 3-27-87
SOURCE Salt Water Disposal 3-31A3 DATE SAMPLED 3-26-87 ANALYSIS NO. 45 3W-00017

Analysis

Mg/l (ppm)

*Meq/l

1. PH	<u>9.6</u>		
2. H ₂ S (Qualitative)	<u>Test Interference</u>		
3. Specific Gravity	<u>1.078</u>		
4. Dissolved Solids			
5. Suspended Solids			
6. Anaerobic Bacterial Count		C/MI	
7. Methyl Orange Alkalinity (CaCO ₃)	<u>42,500</u>		
8. Bicarbonate (HCO ₃)	<u>51,850</u>	<u>+61</u>	<u>850</u> HCO ₃
9. Chlorides (Cl)	<u>38,940</u>	<u>+35.5</u>	<u>1,097</u> Cl
10. Sulfates (SO ₄)	<u>78,000</u>	<u>+48</u>	<u>1,625</u> SO ₄
11. Calcium (Ca)	<u>6</u>	<u>+20</u>	<u>0</u> Ca
12. Magnesium (Mg)	<u>0</u>	<u>+12.2</u>	<u>0</u> Mg
13. Total Hardness (CaCO ₃)	<u>.9</u>		
14. Total Iron (Fe)			
15. Barium (Qualitative)			
16. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

0	Ca	←	HCO ₃	850
0	Mg	→	SO ₄	1625
3572	Na	→	Cl	1097

Saturation Values

Distilled Water 20°C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04				
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		850		71,400
Na ₂ SO ₄	71.03		1,625		115,423
Na Cl	58.46		1,097		64,131

REMARKS _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER WATER DISPOSAL WELL <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR LINMAR PETROLEUM COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. BOX 1327, ROOSEVELT, UT 84066		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 470' FNL 1292' FEL (NE NE)		8. FARM OR LEASE NAME Allred	
14. PERMIT NO. 43-013-30361		9. WELL NO. 2-16A3	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6315' GL		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T. R., M., OR BLK. AND SURVEY OR AREA Sec. 16, T1S, R3W, USM	
		12. COUNTY OR PARISH Duchesne	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☒

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Acidize perforations from 3,593' to 4,424' with 1,000 gal 15% HCl
at 0.8 BPM and 1,300 PSI. Returned well to Water Injection.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. G. HOWARD

TITLE DIVISION ENGINEER

DATE DEC. 19, 1990

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

INJECTION WELL - PRESSURE TEST

Test Date: <u>7/19/94</u>	Well Owner/Operator: <u>Linmar Petroleum</u>
Disposal Well: <u>X</u>	Enhanced Recovery Well: _____ Other: _____
API No.: <u>43-013-30361</u>	Well Name/Number: <u>Allred 2-16A3</u>
Section: <u>16</u>	Township: <u>1 S</u> Range: <u>3 W</u>

Initial Conditions:

Tubing - Rate: N/A Pressure: 1380 psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

<u>Time (Minutes)</u>	<u>Annulus Pressure</u>	<u>Tubing Pressure</u>
0	<u>500</u>	_____
5	<u>500</u>	_____
10	<u>500</u>	_____
15	<u>500</u>	_____
20	_____	_____
25	_____	_____
30	_____	_____

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: _____ psi

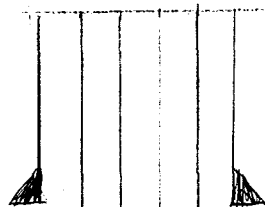
Casing/Tubing Annulus Pressure: _____ psi

REMARKS:

Carroll Estes
Operator Representative

D. [Signature]
DOGM Witness

Lamar Energy Allred 2-16 A3
 NW NE sec 16 T. 15. R. 3 W. (470 FNL, 1292 FEL)



9 5/8" C 321
 cement to surface

2 7/8" C 3493'

Baker Packer @ 3493'



Perfs 3593 - 4424
 (see attached for perforation)

T.D. 4640



7" C 4640'
 Top of cement 350'

22

Don S.

Attachment for Form OGCC-3, Perforation Record, for

MAPCO, WDW Allred 2-16
Section 16, T. 1 S., R. 3 W.
Duchesne County, Utah

Shot the following intervals (BHC Sonic - GR depths) with a strip
jet with 2 shots/foot 28 gram jets:

4422-4424	3915-3917
4414-4420	3910-3913
4406-4410	3778-3779
4391-4394	3775-3777
4387-4389	3771-3773
4380-4385	3759-3767
4376-4378	3754-3757
4317-4318	3715-3721
4311-4316	4684-4686
4241-4243	3651-3653
4230-4238	3639-3649
4069-4073	3615-3617
4010-4022	3607-3612
3969-3976	3603-3605
4936-3934	3599-3601
3919-3923	3596-3598
	3593-3594



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 30, 1994

Linmar Petroleum Company
P.O. Box 1327
Roosevelt, Utah 84066

Re: Pressure Test for Mechanical Integrity, Allred 2-16 and Birch 2-35, Injection Wells, Sec. 16, T. 1 S., R. 3 W., Sec. 35, T. 1 S., R. 5 W., Duchesne County, Utah

Gentlemen:

The Underground Injection Control Program which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five year period beginning October, 1982. Our records indicate the above referenced wells are due for testing. Please make arrangements and ready the well for testing during the week of July 18, 1994 as outlined below:

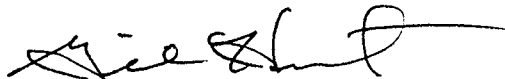
1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), as well as personnel to assist in opening valves etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the wells to be tested on this date the tests may be rescheduled.

Page 2
Pressure Test
June 30, 1994

4. Company personnel should meet DOGM representatives at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection wells must be shut in 24 hours prior to testing.

Please contact Dan Jarvis at (801)538-5340 to arrange a meeting time and place or negotiate a different date if this one is unacceptable.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt", with a long horizontal flourish extending to the right.

Gil Hunt
UIC Program Manager

ldc
Attachment
WOI52



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
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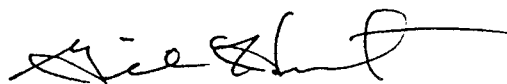
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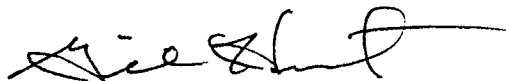


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Gil Hunt
UIC Program Manager

ldc
Attachment
WOI52

DATE: 05/06/94

W E L L S B Y O P E R A T O R

PAGE: 208

ACCT NUM	COMPANY NAME	FLD NUM	FIELD NAME	TOWN SHIP	RANGE	SEC	QTR QTR	API NUMBER	PROD ZONE	WELL STATUS	ENTITY	WELL NAME
N9500	MOUNTAIN STATES PETRO CORP	305	BOUNDARY BUTTE	S430	E220	22	SWSE	4303730805	PRDX	SGW	10995	ENGLISH #37
N9510	RIO BRAVO OIL COMPANY	65	BLUEBELL	S010	W010	24	SENE	4304731434		LA	99998	ROOSEVELT UNIT 24-1
				S010	E010	19	NWNE	4304731443		LA	99998	ROOSEVELT UNIT 19-1
				S010	E010	20	SENE	4304731451		LA	99998	ROOSEVELT UNIT #20-1
N9515	MCCONNELL, B L OPERATING	205	GREATER CISCO	S200	E210	10	NWNE	4301930391	DKTA	PA	9222	CALF CANYON FEDERAL #6
N9520	LINMAR ENERGY CORPORATION	55	ALTAMONT	S010	W030	16	NENE	4301330361	UNTA	WDW	99996	ALRED WDW 2-16 FEE
		65	BLUEBELL	S010	W010	5	SENE	4301330536	GR-WS	PA	9138	CHEVON WAINOCO HELEN LARS
				N010	W010	19	NWSE	4301330820	GR-WS	PA	9330	HOOPES 1-19Z1
		90	DUCHESNE	S040	W040	9	NWNW	4301331012	WSTC	PA	4707	COYOTE UTE TRIBAL 4-9D4
		2	UNDESIGNATED	S030	W070	20	SWNE	4301331038	WSTC	PA	10120	SMITH 1-20C7
		55	ALTAMONT	S010	W040	10	SENE	4301331051		LA	99998	MAXFIELD #1-10A4
				S010	W040	30	SWSW	4301331076		LA	99998	STEVENSON #2-30A4
		80	CEDAR RIM	S030	W060	18	NWNE	4301331081	GR-WS	PA	10312	BIDDLE #6-18C6
		90	DUCHESNE	S040	W040	10	SWNW	4301331137		LA	99998	UTE 1-10D4
		2	UNDESIGNATED	S010	E010	10	SWSW	4304731170		PA	99998	LYNN WHITLOCK #1-10A1E
		65	BLUEBELL	S010	W010	13	SWNW	4304731325		LA	99998	CHASEL 2-13A1
				S010	W010	14	NESE	4304731659		LA	99998	ROOSEVELT UNIT BADGER I1-
				S010	E010	19	NENE	4304731660		LA	99998	ROOSEVELT U BADGER A4-19A
				S010	E010	20	SENE	4304731661		LA	99998	ROOSEVELT UNIT BADGER H-5
				S010	E010	21	SENE	4304731662		LA	99998	ROOSEVELT UNIT BADGER F-6
N9523	LINMAR PETROLEUM COMPANY	55	ALTAMONT	S010	W040	27	NENE	4301330064	GR-WS	POW	9119	OLSEN 1-27A4 FEE
				S010	W040	31	SWNE	4301330067	GR-WS	SOW	1560	EVANS UNIT 1-31A4 FEE
		65	BLUEBELL	S010	W030	7	SWNE	4301330131	GR-WS	TA	9113	GEORGE FISHER 1-7A3 FEE
		55	ALTAMONT	S010	W010	27	NESW	4301330151	GR-WS	POW	4700	COLTHARP 1-27Z1 14-20-HU2-1933
				S010	W050	26	SWNE	4301330153	GR-WS	PA	4705	BIRCH #1-26A5
				S010	W050	29	SENE	4301330154	GR-WS	PA	4710	JENSEN ET AL 1-29A5
				S020	W050	35	NENE	4301330155	GR-WS	TA	4715	RHOADES MOON 1-35B5 FEE
		65	BLUEBELL	S010	W010	3	SENE	4301330171	GR-WS	TA	9139	MORROCKS FEE 1-3A4 FEE
		55	ALTAMONT	S010	W040	17	NENE	4301330173	GR-WS	POW	4725	JESSEN 1-17A4 FEE
				S010	W040	32	SENE	4301330174	GR-WS	TA	4730	WARREN 1-32A4 FEE
				S020	W040	27	NWNE	4301330185	GR-WS	POW	4735	BROTHERSON 1-27B4 FEE
				S010	W050	31	SENE	4301330186	GR-WS	POW	4740	JENSEN 1-31A5 FEE
				S010	W030	20	NWNE	4301330193	GR-WS	POW	9340	R MARSHALL 1-20A3 FEE
				S020	W050	7	SWNE	4301330195	GR-WS	PA	9128	CARMEN 1-7B5
				S010	W050	36	SWNE	4301330196	GR-WS	PA	9123	STEVENSON HEIRS 1-36A5
				S020	W040	31	NWNE	4301330198	GR-WS	SOW	4745	CHRISTMAN BLANN 1-31B4 FEE
				S020	W040	35	NENW	4301330216	GR-WS	PA	4750	ERWIN 1-35B4
				S020	W050	4	SWNE	4301330222	GR-WS	PA	9127	CHENEY 1-4B5
				S010	W030	16	NENE	4301330232	GR-WS	TA	9116	ALLRED 1-16A3 FEE
				S010	W050	35	NENE	4301330233	GR-WS	TA	9122	BIRCH 1-35A5 FEE
				S020	W050	8	NENE	4301330270	GR-WS	PA	9129	SORENSEN 1-8B5
				S010	W030	8	SWNE	4301330286	GR-WS	SOW	9114	STATE 1-8A3 ML-24316
				S020	W040	33	NWNE	4301330288	GR-WS	POW	4760	GRIFFITHS 1-33B4 FEE
				S020	W050	36	NENE	4301330289	GR-WS	POW	4765	RHOADES MOON 1-36B5 FEE
				S010	W040	30	NENE	4301330300	GR-WS	TA PA	9120	MILES 1-30A4 FEE
				S020	W040	32	C-NE	4301330308	GR-WS	SOW	4770	LINDSAY RUSSELL 1-32B4 FEE
				S010	W030	9	SWNE	4301330321	GR-WS	TA	9115	TIMOTHY 1-9A3 FEE

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Allred #2-16A3
Field or Unit name: Altamont API no. 43-013-30361
Well location: QQ section 16 township 1S range 3W county Duchesne
Effective Date of Transfer: 9/1/94

CURRENT OPERATOR

Transfer approved by:

Name L. M. Rohleder Company Linmar Petroleum Company
Signature By: *L. M. Rohleder* Address 7979 E. Tufts Ave. Pkwy, Ste 604
Title Vice President of Managing General Partner Denver, CO 80237
Date 9/1/94 Phone (303) 773-8003

Comments:

NEW OPERATOR

Transfer approved by:

Name Randy L. Bartley Company Coastal Oil & Gas Corporation
Signature *[Signature]* Address P.O. Box 749
Title Vice President Denver, CO 80201-0749
Date 9/1/94 Phone (303) 572-1121

Comments:

(State use only)

Transfer approved by *[Signature]* Title *Environ. Manager*
Approval Date 10-11-94

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT" - for such proposals

5. Lease Designation and Serial No.

Fee

6. If Indian, Alottee or Tribe Name

Ute

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

See attached list.

9. API Well No.

See attached list.

10. Field and Pool, Or Exploratory Area

See attached list.

11. County or Parish, State

See attached list.

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Linmar Petroleum Company

3. Address and Telephone No.

7979 East Tufts Ave. Parkway, Suite 604, Denver, CO 80237 (303) 773-8003

4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)

See attached list of wells.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Change of Operator
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

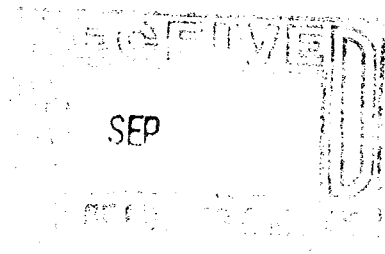
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)*

There will be a change of operator for all wells specified on the attached list.

OPERATOR - FROM: Linmar Petroleum Company
TO: Coastal Oil and Gas Corporation

All operations will be covered by Nationwide Bond No. 11-40-66A and Bond No. U6053821, as required by the State of Utah.



14. I hereby certify that the foregoing is true and correct

Signed By: L. M. Kohlefer Title Vice President of Managing General Partner Date 9/1/94

(This space for Federal or State office use)

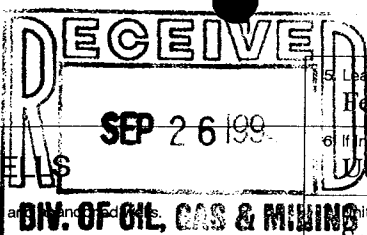
APPROVED BY _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

WELL NAME	API #	FOOTAGES	LOCATION	FIELD	COUNTY	LEASE DESIGNATION
✓ Allred 2-16A3	43-013-30361		Section 16, T1S, R3W, U.S.M.	Altamont	Duchesne	Fee <u>96-000037</u>
Barrett 1-34A5	43-013-30323	713' FNL & 1387' FEL	Section 34, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Birch 1-35A5	43-013-30233	757' FNL & 1024' FEL	Section 35, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Birch 2-35A5	43-013-30362		Section 35, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 1-25B4	43-013-30668	778' FNL & 1627' FEL	Section 25, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 1-27B4	43-013-30185	1244' FNL & 1464' FEL	Section 27, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 2-35B5	43-013-30908	2432' FNL & 1648' FWL	Section 35, T2S, R5W, U.S.M.	Altamont	Duchesne	Fee
Brotherson 2-3B4	43-013-31008	1226' FSL & 1933' FWL	Section 3, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
✓ Chandler 2-5B4	43-013-31000	466' FSL & 1180' FWL	Section 5, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee <u>96-000045 (ANR)</u>
Christensen 2-26A5	43-013-30905	776' FSL & 1467' FWL	Section 26, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Christensen 2-8B3	43-013-30780	1880' FSL & 1694' FWL	Section 8, T2S, R3W, U.S.M.	Altamont	Duchesne	Fee
Christensen 3-4B4	43-013-31142	804' FSL & 1948' FEL	Section 4, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Christman Blann 1-31B4	43-013-30198	1257' FNL & 1552' FEL	Section 31, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
D. Moon 1-23Z1	43-047-31479		Section 23, T1N, R1W, U.S.M.	Bluebell	Uintah	Fee
Ellsworth 2-8B4	43-013-30898	1580' FSL & 1580' FWL	Section 8, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
✓ Ellsworth 2-9B4	43-013-31138	2976' FNL & 2543' FWL	Section 9, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee <u>96-000045 (ANR)</u>
Evans 1-31A4	43-013-30067	1987' FNL & 1973' FEL	Section 31, T1S, R4W, U.S.M.	Altamont	Duchesne	Fee
Fisher 1-19A3	43-013-30535	1609' FNL & 1671' FEL	Section 19, T1S, R3W, U.S.M.	Altamont	Duchesne	Fee
Fisher 2-6A3	43-013-30984	404' FSL & 596' FEL	Section 6, T1S, R3W, U.S.M.	Altamont	Duchesne	Fee
Ford 2-36A5	43-013-30911	1113' FSL & 1659' FWL	Section 36, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Hansen 1-16B3	43-013-30617	2088' FSL & 1760' FWL	Section 16, T2S, R3W, U.S.M.	Altamont	Duchesne	Fee
Horrocks 1-3A1	43-013-30171	2502' FNL & 2141' FWL	Section 3, T1S, R1W, U.S.M.	Bluebell	Duchesne/Uintah	Fee
Jensen 1-31A5	43-013-30186	1380' FNL & 1244' FEL	Section 31, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Jensen 2-29A5	43-013-30974	1085' FSL & 1528' FWL	Section 29, T1S, R5W, U.S.M.	Altamont	Duchesne	Fee
Jessen 1-17A4	43-013-30173	1182' FNL & 1130' FEL	Section 17, T1S, R4W, U.S.M.	Altamont	Duchesne	Fee
✓ Lindsay Russell 2-32B4	43-013-30371		Section 32, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee <u>96-000116</u>
Linmar 1-19B2	43-013-30600	2032' FNL & 2120' FWL	Section 19, T2S, R2W, U.S.M.	Altamont	Duchesne	Fee
Marshall 1-20A3	43-013-30193	565' FNL & 1821' FEL	Section 20, T1S, R3W, U.S.M.	Bluebell	Duchesne	Fee
Murray 3-2A2	43-013-30816	2211' FNL & 2257' FWL	Section 2, T1S, R2W, U.S.M.	Bluebell	Duchesne	Fee
Oman 2-4B4	43-013-30645	1536' FSL & 1849' FWL	Section 4, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee
Rhoades Moon 1-35B5	43-013-30155	870' FNL & 960' FEL	Section 35, T2S, R5W, U.S.M.	Altamont	Duchesne	Fee
Wimmer 2-27B4	43-013-30941	904' FNL & 886' FWL	Section 27, T2S, R4W, U.S.M.	Altamont	Duchesne	Fee

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

Fee

6. If Indian, Allottee or Tribe Name:

File

7. Permit Agreement Name:

See attached list.

1. Type of Well:

OIL ☒ GAS ☐ OTHER:

8. Well Name and Number:

See attached list.

2. Name of Operator:

Coastal Oil & Gas Corporation

9. API Well Number:

See attached list.

3. Address and Telephone Number:

P.O. Box 749, Denver, CO 80201-0749

(303) 573-4476

10. Field and Pool, or Wildcat:

Altamont/Bluebell

4. Location of Well

Footages: See attached list.

County: See attached list.

QQ, Sec., T., R., M.:

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit In Duplicate)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other Change of operator. | |

Approximate date work will start 9/8/94

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other | |

Date of work completion

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

There was a change of operator on the date above for all wells on the attached list:

OPERATOR: - FROM: Linmar Petroleum Company
TO: Coastal Oil & Gas Corporation

All operations are covered by Nationwide Bond No. 11-40-66A, Bond No. U6053821 and Nationwide Bond No. 962270.

13.

Name & Signature:

Bernice Schneider

Title:

Environmental Analyst

Date:

09/19/94

(This space for State use only)

WELL NAME	API #	FOOTAGES	LOCATION	COUNTY	LEASE DESIGNATION	TRIBE NAME	CA #	BOND #
State 1-19A4	43-013-30322	985' FNL & 853' FEL	Section 19, T1S, R4W, U.S.M.	Duchesne	ML-27912	Ute		102102, 962270
State 1-8A3	43-013-30286	1545' FNL & 1489' FEL	Section 8, T1S, R3W, U.S.M.	Duchesne	ML-24316	Ute	NRM-715	102102, 962270
Wainoco State 1-14B1	43-047-30818		Section 14, T2S, R1W, U.S.M.	Duchesne/Uintah	ML-2402	Ute		102102, 962270

WELL NAME	API #	FOOTAGES	LOCATION	COUNTY	LEASE DESIGNATION	TRIBE NAME	CA #	BOND #
Allred 1-16A3	43-013-30232	700' FNL & 1280' FEL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Allred 2-16A3	43-013-30361		Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Barrett 1-34A5	43-013-30323	713' FNL & 1387' FEL	Section 34, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Belcher 2-33B4	43-013-30907	2348' FNL & 1085' FWL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Birch 1-35A5	43-013-30233	757' FNL & 1024' FEL	Section 35, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Birch 2-35A5	43-013-30362		Section 35, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 1-25B4	43-013-30668	778' FNL & 1627' FEL	Section 25, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 1-27B4	43-013-30185	1244' FNL & 1464' FEL	Section 27, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 2-35B5	43-013-30908	2432' FNL & 1648' FWL	Section 35, T2S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brotherson 2-3B4	43-013-31008	1226' FSL & 1933' FWL	Section 3, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Brown 2-28B5	43-013-30718	1777' FSL & 1413' FWL	Section 28, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	96-000068	102102, 962270
Carl Smith 2-25A4	43-013-30776		Section 25, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000036	102102, 962270
Chandler 2-5B4	43-013-31000	466' FSL & 1180' FWL	Section 5, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	NW 5-36	102102, 962270
Chasel 2-17A1	43-013-30732	1379' FSL & 1360' FWL	Section 17, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	VR49184680C	102102, 962270
Chasel Hackford 2-10A1E	43-047-31421	1120' FSL & 1120' FEL	Section 10, T1S, R1E, U.S.M.	Uintah	Fee	Ute	UT08014986C693	102102, 962270
Chasel Miller 2-1A2	43-013-30360		Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Christensen 2-26A5	43-013-30905	776' FSL & 1467' FWL	Section 26, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Christensen 2-8B3	43-013-30780	1880' FSL & 1694' FWL	Section 8, T2S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Christensen 3-4B4	43-013-31142	804' FSL & 1948' FEL	Section 4, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Christman Blann 1-31B4	43-013-30198	1257' FNL & 1552' FEL	Section 31, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Clark 2-9A3	43-013-30876		Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Duncan 3-1A2	43-013-31135	1097' FSL & 702' FWL	Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Dye 1-25Z2	43-013-30659	1520' FSL & 1520' FEL	Section 25, T1N, R2W, U.S.M.	Duchesne	Fee	Ute	UT08049P84C723	102102, 962270
D. Moon 1-23Z1	43-047-31479		Section 23, T1N, R1W, U.S.M.	Uintah	Fee	Ute		102102, 962270
Ellsworth 2-8B4	43-013-30898	1580' FSL & 1580' FWL	Section 8, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Ellsworth 2-9B4	43-013-31138	2976' FNL & 2543' FWL	Section 9, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-00045	102102, 962270
Evans 1-31A4	43-013-30067	1987' FNL & 1973' FEL	Section 31, T1S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Fieldsted 2-27A4	43-013-30915	1496' FSL & 1718' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
Fisher 1-16A4	43-013-30737	1527' FSL & 834' FEL	Section 16, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184672C	102102, 962270
Fisher 1-19A3	43-013-30535	1609' FNL & 1671' FEL	Section 19, T1S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Fisher 1-7A3	43-013-30131	1980' FNL & 2080' FEL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Fisher 2-6A3	43-013-30984	404' FSL & 596' FEL	Section 6, T1S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Ford 2-36A5	43-013-30911	1113' FSL & 1659' FWL	Section 36, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Goodrich 1-24A4	43-013-30760	1106' FNL & 1599' FEL	Section 24, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184703C	102102, 962270
Griffith 1-33B4	43-013-30288	1307' FNL & 1512' FEL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Hansen 1-16B3	43-013-30617	2088' FSL & 1760' FWL	Section 16, T2S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Horrocks 1-3A1	43-013-30171	2502' FNL & 2141' FWL	Section 3, T1S, R1W, U.S.M.	Duchesne/Uintah	Fee	Ute		102102, 962270
Horrocks 2-4A1	43-013-30954	1678' FNL & 1520' FEL	Section 4, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	UT08014985C701	102102, 962270
Jacobson 2-12A4	43-013-30985	1104' FSL & 2417' FWL	Section 12, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	UT08014986C685	102102, 962270
Jenkins 3-16A3	43-013-30877	1085' FSL & 1905' FWL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Jensen 1-29Z1	43-013-30725	1331' FSL & 2424' FEL	Section 29, T1N, T1W, U.S.M.	Duchesne	Fee	Ute	VR49184681C	102102, 962270
Jensen 1-31A5	43-013-30186	1380' FNL & 1244' FEL	Section 31, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Jensen 2-29A5	43-013-30974	1085' FSL & 1528' FWL	Section 29, T1S, R5W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Jessen 1-15A4	43-013-30817	2417' FNL & 1514' FEL	Section 15, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184692C	102102, 962270
Jessen 1-17A4	43-013-30173	1182' FNL & 1130' FEL	Section 17, T1S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
LeBeau 1-34A1	43-013-30590		Section 34, T1S, R1W, U.S.M.	Duchesne/Uintah	Fee	Ute	VR49184694C	102102, 962270
Lindsay Russell 1-32B4	43-013-30308	1320' FNL & 1320' FEL	Section 32, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Lindsay Russell 2-32B4	43-013-30371		Section 32, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Linmar 1-19B2	43-013-30600	2032' FNL & 2120' FWL	Section 19, T2S, R2W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Marshall 1-20A3	43-013-30193	565' FNL & 1821' FEL	Section 20, T1S, R3W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Morris 2-7A3	43-013-30977	2473' FSL & 580' FWL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Murray 3-2A2	43-013-30816	2211' FNL & 2257' FWL	Section 2, T1S, R2W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Olsen 1-27A4	43-013-30064	1200' FNL & 1200' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
Oman 2-32A4	43-013-30904	754' FSL & 1140' FWL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Oman 2-4B4	43-013-30645	1536' FSL & 1849' FWL	Section 4, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270
Powell 2-8A3	43-013-30979	661' FSL & 1114' FWL	Section 8, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	NRM-715	102102, 962270
Rhodes Moon 1-35B5	43-013-30155	870' FNL & 960' FEL	Section 35, T2S, R5W, U.S.M.	Duchesne	Fee			
Rhodes Moon 1-36B5	43-013-30289		Section 36, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	96-000113	102102, 962270
Timothy 1-9A3	43-013-30321	1491' FNL & 1646' FEL	Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Timothy 3-18A3	43-013-30940		Section 18, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000132	102102, 962270
Warren 1-32A4	43-013-30174	1799' FNL & 1104' FEL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Wildlife Resources 1-33B5	43-013-30649	1804' FNL & 1603' FEL	Section 33, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	UT08049184C726	102102, 962270
Wilkinson 1-20Z1	43-013-30942	1523' FSL & 1509' FEL	Section 20, T1N, R1W, U.S.M.	Duchesne	Fee	Ute	UT08014986C680	102102, 962270
Wimmer 2-27B4	43-013-30941	904' FNL & 886' FWL	Section 27, T2S, R4W, U.S.M.	Duchesne	Fee	Ute		102102, 962270

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SEP 26 1994

SUNDRY NOTICES AND REPORTS ON WELLS
DIV. OF OIL, GAS & MININGDo not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

Fee

6. If Indian, Allottee or Tribe Name:

Ute

7. Unit Agreement Name:

See attached list.

8. Well Name and Number:

See attached list.

9. API Well Number:

See attached list.

10. Field and Pool, or Wildcat:

Altamont/Bluebell

1. Type of Well:

OIL ☒ GAS ☐ OTHER:

2. Name of Operator:

Linmar Petroleum Company

3. Address and Telephone Number:

7979 East Tufts Ave. Parkway, Suite 604, Denver, CO 80237 (303)773-8003

4. Location of Well

Footages: See attached list.

County: See attached list.

QQ, Sec., T., R., M.:

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT

(Submit In Duplicate)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other Change of operator. | |

Approximate date work will start 9/8/94

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other | |

Date of work completion

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

There was a change of operator on the date above for all wells on the attached list:

OPERATOR: - FROM: Linmar Petroleum Company

TO: Coastal Oil & Gas Corporation

All operations are covered by Nationwide Bond No. 11-40-66A, Bond No. U6053821 and Nationwide Bond No.962270.

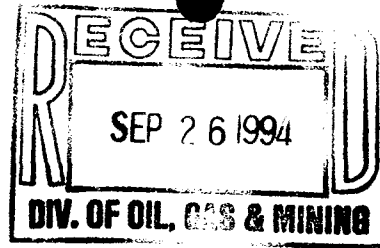
13.

Name & Signature:

BY: L. M. ROHLEDER / *L. M. Rohleder*V.P. OF MANAGING
Title: GENERAL PARTNER

Date: 9/20/94

(This space for State use only)



September 21, 1994

State of Utah
Division of Oil Gas, and Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

ATTN: Leesha Cordoba

Leesha:

I have mailed off the revised list of all the FEE wells to you, as well as the State wells.

The signed copies of the UIC Form 5's were mailed to the State approximately 9/12/94. Copies of the sundries sent to the BLM for all the Indian wells were mailed to the State also on 9/19/94.

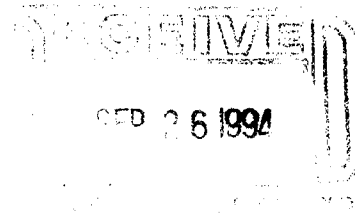
I will address the Linmar FEE and CA wells ASAP, and will talk to our land people on 9/19 to determine the disposition of those wells temporarily abandoned.

Thanks again for you much appreciated help.

Sincerely,

Bonnie Johnston
Environmental Coordinator
(303) 573-4476

WELL NAME	API #	FOOTAGES	LOCATION	COUNTY	LEASE DESIGNATION	TRIBE NAME	CA #	BOND #
Allred 1-16A3	43-013-30232	700' FNL & 1280' FEL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Allred 2-16A3	43-013-30661	30361	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Belcher 2-33B4	43-013-30907	2348' FNL & 1085' FWL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Brown 2-28B5	43-013-30718	1777' FSL & 1413' FWL	Section 28, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	96-000068	102102, 962270
Carl Smith 2-25A4	43-013-30776		Section 25, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000036	102102, 962270
Chasel 2-17A1	43-013-30732	1379' FSL & 1360' FWL	Section 17, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	VR49184680C	102102, 962270
Chasel Hackford 2-10A1E	43-047-31421	1120' FSL & 1120' FEL	Section 10, T1S, R1E, U.S.M.	Uintah	Fee	Ute	UT08014987C693	102102, 962270
Chasel Miller 2-1A2	43-013-30360		Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014986C693	102102, 962270
Clark 2-9A3	43-013-30876		Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Duncan 3-1A2	43-013-31135	1097' FSL & 702' FWL	Section 1, T1S, R2W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Dye 1-25Z2	43-013-30659	1520' FSL & 1520' FEL	Section 25, T1N, R2W, U.S.M.	Duchesne	Fee	Ute	UT08014987C685	102102, 962270
Fieldsted 2-27A4	43-013-30915	1496' FSL & 1718' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	UT08049P84C723	102102, 962270
Fisher 1-16A4	43-013-30737	1527' FSL & 834' FEL	Section 16, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
Fisher 1-7A3	43-013-30131	1980' FNL & 2080' FEL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	VR49184672C	102102, 962270
Goodrich 1-24A4	43-013-30760	1106' FNL & 1599' FEL	Section 24, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Griffith 1-33B4	43-013-30288	1307' FNL & 1512' FEL	Section 33, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184703C	102102, 962270
Horrocks 2-4A1	43-013-30954	1678' FNL & 1520' FEL	Section 4, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	96-000119	102102, 962270
Jacobson 2-12A4	43-013-30985	1104' FSL & 2417' FWL	Section 12, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	UT08014985C701	102102, 962270
Jenkins 3-16A3	43-013-30877	1085' FSL & 1905' FWL	Section 16, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	UT08014986C685	102102, 962270
Jensen 1-29Z1	43-013-30725	1331' FSL & 2424' FEL	Section 29, T1N, T1W, U.S.M.	Duchesne	Fee	Ute	96-000087	102102, 962270
Jessen 1-15A4	43-013-30817	2417' FNL & 1514' FEL	Section 15, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	VR49184681C	102102, 962270
LeBeau 1-34A1	43-013-30590		Section 34, T1S, R1W, U.S.M.	Duchesne	Fee	Ute	VR49184692C	102102, 962270
Lindsay Russell 1-32B4	43-013-30308	1320' FNL & 1320' FEL	Section 32, T2S, R4W, U.S.M.	Duchesne/Uintah	Fee	Ute	VR49184694C	102102, 962270
Lindsay Russell 2-32B4	43-013-30371		Section 32, T2S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Morris 2-7A3	43-013-30977	2473' FSL & 580' FWL	Section 7, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000116	102102, 962270
Olsen 1-27A4	43-013-30064	1200' FNL & 1200' FEL	Section 27, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000058	102102, 962270
Oman 2-32A4	43-013-30904	754' FSL & 1140' FWL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	96-000108	102102, 962270
Powell 2-8A3	43-013-30979	661' FSL & 1114' FWL	Section 8, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Rhoades Moon 1-36B5	43-013-30289		Section 36, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	NRM-715	102102, 962270
Timothy 1-9A3	43-013-30321	1491' FNL & 1646' FEL	Section 9, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	96-000113	102102, 962270
Timothy 3-18A3	43-013-30940		Section 18, T1S, R3W, U.S.M.	Duchesne	Fee	Ute	9C-000123	102102, 962270
Warren 1-32A4	43-013-30174	1799' FNL & 1104' FEL	Section 32, T1S, R4W, U.S.M.	Duchesne	Fee	Ute	9C-000132	102102, 962270
Wildlife Resources 1-33B5	43-013-30649	1804' FNL & 1603' FEL	Section 33, T2S, R5W, U.S.M.	Duchesne	Fee	Ute	NW-613	102102, 962270
Wilkerson 1-20Z1	43-013-30942	1523' FSL & 1509' FEL	Section 20, T1N, R1W, U.S.M.	Duchesne	Fee	Ute	UT08049184C726	102102, 962270
							UT08014986C680	102102, 962270



Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

Routing

1-LEC 7-PL	✓
2-LWP 8-SJ	✓
3-DTS 9-FILE	✓
4-VLC	✓
5-RJF	✓
6-LWP	✓

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 9-8-94)

TO (new operator) COASTAL OIL & GAS CORP
 (address) PO BOX 749
DENVER CO 80201-0749
 phone (303) 572-1121
 account no. N0230

FROM (former operator) LINMAR PETROLEUM COMPANY
 (address) 7979 E TUFTS AVE PKWY 604
DENVER CO 80237
 phone (303) 773-8003
 account no. N9523

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: <u>013-30361</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 9-12-94)
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 9-16-94)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (10-4-94)
- See 6. Cardex file has been updated for each well listed above. 10-14-94
- See 7. Well file labels have been updated for each well listed above. 10-14-94
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-4-94)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) **25,000 Surety "Trust Land Admin." (Bond Incr. in Progress)*

- Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. **80,000 Surety "United Pacific Ins. Co."*
2. A copy of this form has been placed in the new and former operators' bond files. ** Upon compl. of reating.*
- Lec 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date Sept. 13 1994. If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- DTs 2. Copies of documents have been sent to State Lands for changes involving State leases. *10-17-94 to Ed. Bonner*

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: 10-20 1994.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

941003 Ed/Trust Land Admin. (Bond Incr. in Progress)

* Indian Lease wells & wells involved in C.A.'s "separate change".



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

November 8, 1994

ANR Production Company Inc.
P.O. Box 749
Denver, Colorado 80201-0749

Re: Onsite Pit at Allred 2-16A3 Well, Located in Section 16, Township 1 South, Range 3 West, Duchesne County, Utah

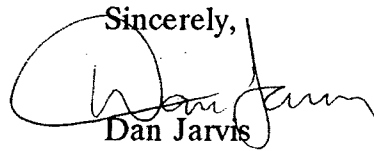
Gentlemen:

On October 6, 1994, an inspection was conducted at the above location. It was noted that an unlined pit was being used to catch overflow from produced water tanks. It appears that this is an ongoing procedure and that the pit is not used only for emergency purposes.

Considering that the location and construction of this pit does not meet the requirements for utilizing an unlined pit, and that it may be an environmental liability, the Division requests that a plan be submitted within 10 days of the receipt of this letter, outlining a procedure and time frame for closing the pit or bringing it up to current standards.

If you have any questions, please call me.

Sincerely,



Dan Jarvis
Geologist

ldc

cc: Dennis Ingram
WUI24





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

Encl.

November 22, 1994

November 8, 1994

ANR Production Company Inc.
P.O. Box 749
Denver, Colorado 80201-0749

Re: Onsite Pit at Allred 2-16A3 Well, Located in Section 16, Township 1 South, Range 3 West, Duchesne County, Utah

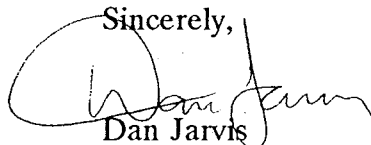
Gentlemen:

On October 6, 1994, an inspection was conducted at the above location. It was noted that an unlined pit was being used to catch overflow from produced water tanks. It appears that this is an ongoing procedure and that the pit is not used only for emergency purposes.

Considering that the location and construction of this pit does not meet the requirements for utilizing an unlined pit, and that it may be an environmental liability, the Division requests that a plan be submitted within 10 days of the receipt of this letter, outlining a procedure and time frame for closing the pit or bringing it up to current standards.

If you have any questions, please call me.

Sincerely,


Dan Jarvis
Geologist

ldc

cc: Dennis Ingram
WUI24





Coastal
The Energy People

December 14, 1994

TO: Dan Jarvis
FROM: D.P. Barone
RE: Allred 2-16A3 SWD

This is in notification that I have initiated action to eliminate the pit at the Allred 2-16A3 SWD. Bids were let, and Robinson Construction of Roosevelt, Utah was successful. Starting date is 12-19-94. All work will be done to Federal and State specifications. If there is any thing else I can help you with, please let me know.

D.P. Barone

D.P. Barone

RECEIVED

DEC 19 1994

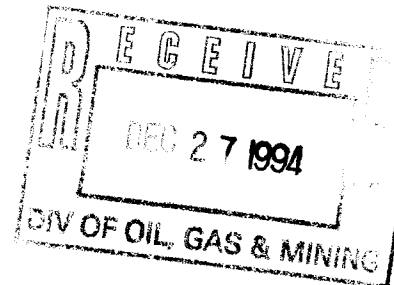
DEPT. OF OIL, GAS & MINES

Coastal Oil & Gas Corporation

A SUBSIDIARY OF THE COASTAL CORPORATION
2 1/2 MILES WEST OF ALTAMONT • HWY 87 • P O BOX 120 • ALTAMONT UT 84001 • 801/454-3394



Coastal
The Energy People



December 21, 1994

State of Utah
Division of Oil, Gas, & Mining
355 W. North Temple, Suite 350
Salt Lake City, Utah 84180-1203

RE: Allred #2-16A3 Pit Closure

ATTN: Dan Jarvis

Dear Dan,

I spoke to Doug Barone, who is supervising the pit closure at the above well. As of today, work is about 90% completed. He assured me that the pit would be completely cleaned up by tomorrow. He will send you written confirmation when the work is fully completed.

If you have any questions, please call me at (303) 573-4476.

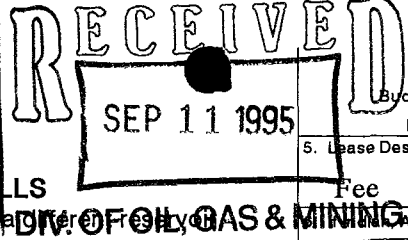
Sincerely,

Bonnie Johnston
Environmental Analyst

Coastal Oil & Gas Corporation

A SUBSIDIARY OF THE COASTAL CORPORATION
600 17TH ST • STE 800 S • P O BOX 749 • DENVER CO 80201-0749 • 303/572-1121

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
5. Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a well. For such proposals use "APPLICATION FOR PERMIT" - for such proposals

Fee
Applicant or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Linmar Petroleum Company

3. Address and Telephone No.

7979 East Tufts Ave. Parkway, Suite 604, Denver, CO 80237 (303) 773-8003

4. Location of Well (Footage, Sec., T., R., M., Or Survey Description)

See attached list of wells.

16-T1S-R3W

Ute

7. If Unit or CA, Agreement Designation

N/A 96-97⁸⁷

8. Well Name and No.

See attached list. 2-16A3

9. AAPI Well No.

See attached list. 43-013-30361

10. Field and Pool, Or Exploratory Area

See attached list. Altamont

11. County or Parish, State

See attached list.

Duchess

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Change of Operator

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)*

There will be a change of operator for all wells specified on the attached list.

OPERATOR - FROM: Linmar Petroleum Company
TO: Coastal Oil and Gas Corporation

All operations will be covered by Nationwide Bond No. 11-40-66A and Bond No. U6053821, as required by the State of Utah.

INTERNAL DIST.
2006
FBI
FBI
FBI
FBI

14. I hereby certify that the foregoing is true and correct

Signed By: L. M. Kohlefer

Title Vice President of Managing General Partner Date 9/1/94

(This space for Federal or State office use)

APPROVED BY

Conditions of approval, if any

Title

Date

NOTED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

59-94-145A

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - INSPECTION RECORD

Well Name: ALLRED #2-16A3 API Number: 43-013-30361
Qtr/Qtr: NE/NE Section: 16 Township: 1S Range: 3W
Company Name: COASTAL OIL & GAS CORP
Lease: State _____ Fee YES Federal _____ Indian _____
Inspector: DENNIS L. INGRAM Date: 2/01/99
—

Injection Type:

Disposal: WDW Enhanced Recovery: _____ Other: _____Injecting: YES Shut-In: _____Rate: 1816 (bpd) Totalizer: 315 (bbls)Gauges: Tubing: YESCasing: YES Casing Pressure: 0 (psig)Tubing Pressure: 1500 (psig) Housekeeping: GOODEquipment Condition: GOODCOMMENTS: PUMP IS RUNNING. MURPHY HIGH PRESSURE SWITCH SET
TO SHUT DOWN PUMP AT 2800 PSI.

INJECTION WELL - PRESSURE TEST

Well Name:	<u>ALLRED 2-16A3</u>		API Number:	<u>43-013-30361</u>	
Qtr/Qtr:	<u>NE/NE</u>	Section:	<u>16</u>	Township:	<u>15</u>
				Range:	<u>3W</u>
Company Name:	<u>COASTAL OIL & GAS CORPORATION</u>				
Lease:	State	Fee	Federal	Indian	
Inspector:	<u>Dennis Longman</u>		Date:	<u>02-03-2000</u>	

Initial Conditions:

Tubing - Rate: _____ Pressure: 1125 psiCasing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1000 PSI</u>	<u>1125 PSI</u>
5	<u>995</u>	<u>1125</u>
10	<u>990</u>	<u>1125</u>
15	<u>985</u>	<u>1125</u>
20	<u>980</u>	<u>1125</u>
25	<u>975</u>	<u>1125</u>
30	<u>975</u>	<u>1125</u>

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 1125 psiCasing/Tubing Annulus Pressure: 975 psi

COMMENTS: WAS NOT INJECTING DURING TEST. TEMP ON
H₂O IN TUBING WAS WARMER THAN H₂O PUMPED DOWN CSG.
HAD SOME HEAT TRANSFER, BUT CSG PRESSURE DID
STABILIZE. TESTED @ 4:00 PM

Kay Muham
 Operator Representative

RECORDED
12/1/00

Mechanical Integrity Test Casing or Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

DIVISION OF
OIL, GAS AND MINING

EPA Witness: Not Present Date 2 / 3 / 00 Time 10:00 am am/pm

Test conducted by: Dennis Ingram UTDOGM

Others present: Bill McGaughey/Rocky Meacham

Well: Allred #2-16A3

Well ID: UT2651-02556

Field: Altamont

Company: Coastal Oil & Gas Corporation

Well Location: NENE Sec.35,T1S,R3W

Address: P.O. Box 1148
Vernal, Utah 84078

Time	Test #1	Test #2	Test #3
0 min	<u>1000</u> psig	<u> </u> psig	<u> </u> psig
5	<u>995</u>	<u> </u>	<u> </u>
10	<u>990</u>	<u> </u>	<u> </u>
15	<u>985</u>	<u> </u>	<u> </u>
20	<u>980</u>	<u> </u>	<u> </u>
25	<u>775</u>	<u> </u>	<u> </u>
30 min	<u>975</u>	<u> </u>	<u> </u>
35	<u> </u>	<u> </u>	<u> </u>
40	<u> </u>	<u> </u>	<u> </u>
45	<u> </u>	<u> </u>	<u> </u>
50	<u> </u>	<u> </u>	<u> </u>
55	<u> </u>	<u> </u>	<u> </u>
60 min	<u> </u>	<u> </u>	<u> </u>
Tubing press	<u>1125</u> psig	<u> </u> psig	<u> </u> psig

Result Pass Fail Pass Fail Pass Fail

Signature of EPA Witness: Contacted Jafari Bahramon 2/2/00

See back of page for any additional comments & compliance followup.



February 14, 2000

RECEIVED

FEB 15 2000

DIVISION OF
OIL, GAS AND MINING

RECEIVED

FEB 15 2000

DIVISION OF
OIL, GAS AND MINING

VIA FAX & MAIL

Mr. Dan Jackson
US Environmental Protection Agency
UIC Implementation Section 8ENF-T
999 18th Street Suite #500
Denver, Colorado 80202-2405

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite #1210
Salt Lake City, Utah 84114

TEW #1-9B5
SENE Sec.9,T9S,R5W
EPA No. UT2722-03788
Altamont Field
Duchesne County, Utah

Ute #1
NWNW Sec.18,T3S,R6W
EPA No. On File
Altamont Field
Duchesne County, Utah

Allred #2-16A3
NENE Sec.16,T1S,R3W
EPA No. UT2651
Altamont Field
Duchesne County, Utah

Lindsay Russell #2-32B4
NENE Sec.32,T2S,R4W
EPA No.UT2658-02558
Altamont Field
Duchesne County, Utah

Attention Dan Jackson & Dan Jarvis:

Please find attached the MIT Annulus Pressure Monitoring results for the above referenced well.

Coastal Oil & Gas Corporation believes that the wells are performing normally and require no further work to remain functionally sound and Coastal intends to continue current injection activity.

Please review the attached monitoring results and provide us with your comments ASAP. If you have any questions, please do not hesitate to call me @ (435)-781-7023.

Sincerely,

Cheryl Cameron
Environmental Analyst

Attachments

CC: Bill McGaughey

Coastal Oil & Gas Corporation

A SUBSIDIARY OF THE COASTAL CORPORATION
1368 S 1200 E • P.O. BOX 1148 • VERNAL UT 84078 • 435/789-4433 • FAX 435/789-4436

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL ☐ GAS ☐ OTHER: SWD

2. Name of Operator

Coastal Oil & Gas Corporation

3. Address and Telephone Number.

P.O. Box 1148, Vernal UT 84078

(435)781-7023

4. Location of Well

Footages: ⁶⁴⁷⁰ 700' FNL & ¹²⁹² 1280' FEL

QQ, Sec., T., R., M.:

NE/NE Sec. 16, T1S, R3W

5. Lease Designation and Serial Number

Fee

6. Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Allred #2-16A3

9. API Well Number:

³⁰³⁶¹
43-013-30232

10. Field and Pool, or Wildcat

Altamont

County: Duchesne

State: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Perforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other _____ | Step Rate Test |

Approximate date work will start Upon Approval

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandon* | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Perforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion _____

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The injection pressure for the subject well is currently at 1400#. Coastal Oil & Gas Corporation would like to increase the injection pressure by conducting a SRT in order to establish an acceptable fracture gradient and increase the injection pressure to 1700# - 1800#.

13.

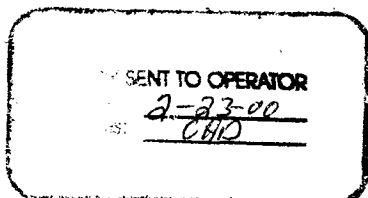
Name & Signature

Cheryl Cameron

Title Environmental Analyst

Date 2/17/00

(This space for State use only)



(See instructions on Reverse Side)

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL ☐ GAS ☒ OTHER: _____

SWD Allred #2-16A3

2. Name of Operator

Coastal Oil & Gas Corporation

9. API Well Number:

43-013-30232

3. Address and Telephone Number.

P.O. Box 1148, Vernal UT 84078

(435)-781-7023

10. Field and Pool, or Wildcat

Altamont

4. Location of Well

Footages: 470' FNL & 1292' FEL

County: Duchesne

QQ, Sec., T., R., M.: NENE Sec. 16, T1S, R3W

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandon | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recomplete |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Perforate |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandon* | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Repair Casing | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Perforate |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Vent or Flare |
| <input checked="" type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Date of work completion 2/11/00

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see attached Acid Treatment for the subject well.

13. Name & Signature Cheryl Cameron Title Environmental Jr. Analyst

Date 2/21/00

(This space for State use only)

ALLRED #2-16A3 SWD WELL

- 2/4/00 RIH w/wire line to tag TD. Tag at 3650'. TD is 4650' w/perforated interval from 3593'-4424'.
- 2/5/00 MIRU coil tubing unit. Pump 36 Bbls. 15% HCL in tbgs. Tag at 3660'. Wash with acid to 4500'.
- 2/9/00 MIRU WSI. RIH w/wireline and tag at 4195'. Run fluid survey from 3593' To 4045'. Major exit of fluid through top of 4' of perf. 11 BWPD is existing perf at 4045'.
- 2/11/00 MIRU Dowell, acidize perf from 3593'-4424' w/7000 gal. DAD acid and 7000 gal. Bleach in 4 stages w/3 diverter stages. Total load 603 Bbls. ISIP 1172 psi. Avg. Pressure 1412 psi, max. Pressure 1600 psi. Average rate 3 BPM, max rate 5 BPM. Return to injection at @BPM at 1050 psi.



Coastal
The Energy People

April 25, 2000

Mr. Bahram Jafari
8ENF-T
U. S. EPA
Region VIII
999 18th Street, Suite 500
Denver, CO 80202-2466

Re: Well: Allred # 2-16-A3
Well ID: UT 2651-02556
Field: Altamont

43-013-30361
See 16, 15, 3W

Dear Mr. Jafari:

Per conditions described in the permit identified above, please find results for the mechanical integrity test (MIT) recently performed on the above referenced well. As data enclosed indicates, this well attained a "pass" performance for the MIT.

If you have questions, you may contact me at (435)781-7048.

Sincerely,

Deborah A. Harris, PG
Environmental Geologist

Cc:

[Redacted]
Bill McGaughey
BLM-Vernal
WF-Vernal

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APR 26 2000

DIVISION OF
OIL, GAS AND MINING

Coastal Oil & Gas Corporation

A SUBSIDIARY OF THE COASTAL CORPORATION
1363 S 1200 E • P.O. BOX 1148 • VERNAL, UT 84078 • 435/789-4433 • FAX 435/789-4435

Mechanical Integrity Test Casing or Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: _____ Date 4/19/00 Time 10:30 (am)/pm

Test conducted by: DWAYNE DAVIS

Others present: Dale Christensen

Well: Allred 2-16-A3

Well ID: UT 2651-02556

Field: Attamont

Company: Coastal Oil & Gas Corporation

Well Location: NE/NE Sec 16, T15, R3W

Address: P.O. Box 1148
Vernal, Utah 84078

Time	Test #1	Test #2	Test #3
<u>10:25 Am</u> 0 min	<u>1020</u> psig	_____ psig	_____ psig
5	<u>1020</u>	_____	_____
10	<u>1010</u>	_____	_____
15	<u>1000</u>	_____	_____
20	<u>1000</u>	_____	_____
25	<u>1000</u>	_____	_____
30 min	<u>1000</u>	_____	_____
35	_____	_____	_____
40	_____	_____	_____
45	_____	_____	_____
50	_____	_____	_____
55	_____	_____	_____
60 min	_____	_____	_____

Tubing press Start 280 psig
End 300 psig

_____ psig _____ psig

Result (Pass) Fail

Pass Fail

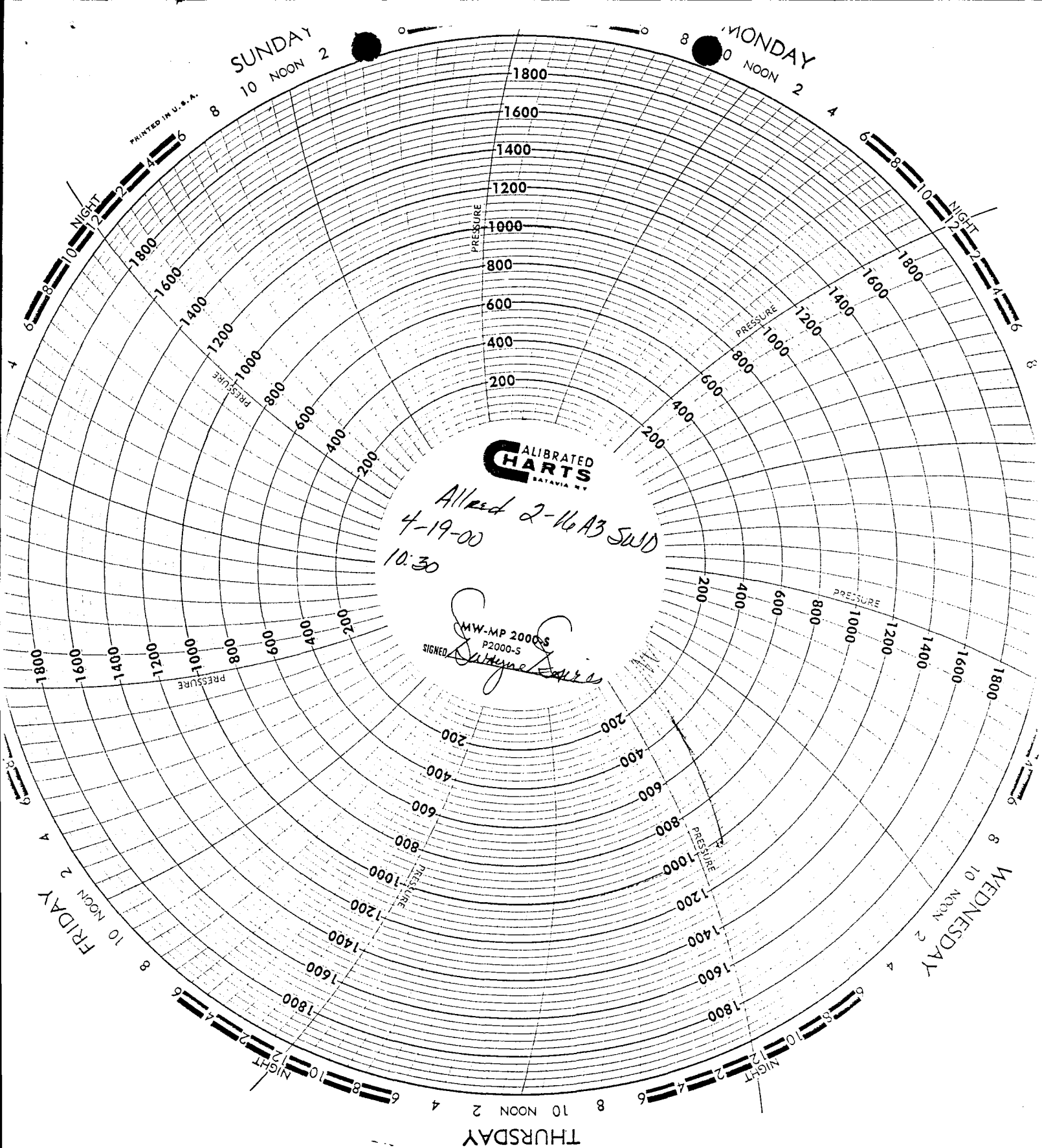
Pass Fail

Signature of EPA Witness: _____

See back of page for any additional comments & compliance followup.

This is the front side of two sides

Coastal Witness Dwayne Davis



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DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR:

El Paso Production Oil & Gas Company

3. ADDRESS OF OPERATOR:

368 South 1200 East CITY Vernal STATE Utah ZIP 84078

PHONE NUMBER:

435-789-4433

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

Exhibit "A"

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

COUNTY:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will start:

☐ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: Name Change

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.

See Exhibit "A"

Bond # 400JU0708

Coastal Oil & Gas Corporation

NAME (PLEASE PRINT)

John T. Elzner

TITLE

Vice President

SIGNATURE

DATE

06-15-01

El Paso Production Oil & Gas Company

NAME (PLEASE PRINT)

John T. Elzner

TITLE

Vice President

SIGNATURE

DATE

06-15-01

(This space for State use only)

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JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

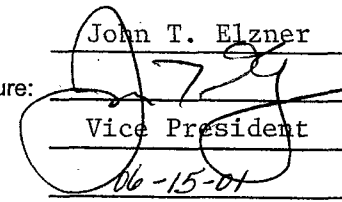
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number <u>EXHIBIT "A"</u>	API Number
Location of Well Footage : <u> </u> County : <u> </u>	Field or Unit Name
QQ, Section, Township, Range: <u> </u> State : UTAH	Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 03-09-01

CURRENT OPERATOR

Company: Coastal Oil & Gas Corporation
Address: 1368 South 1200 East
city Vernal state UT zip 84078
Phone: 435-789-4433

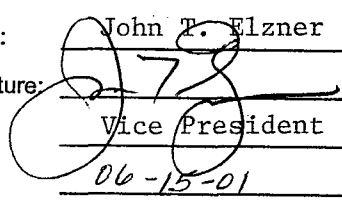
Name: John T. Elzner
Signature: 
Title: Vice President
Date: 06-15-01

Comments: As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.

See EXHIBIT "A"

NEW OPERATOR


Company: El Paso Production Oil & Gas Company
Address: 1368 South 1200 East
city Vernal state UT zip 84078
Phone: 435-789-4433

Name: John T. Elzner
Signature: 
Title: Vice President
Date: 06-15-01

Comments: NAME CHANGE

Bond Number 400JU0708

(This space for State use only)

Transfer approved by: 
Title: TECH. SERVICES MANAGER

Approval Date: 6-21-01

Comments: EXHIBIT A AS REVISED.

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DIVISION OF
OIL, GAS AND MINING

EXHIBIT "A"

NAME CHANGE FROM COASTAL OIL & GAS CORPORATION TO EL PASO PRODUCTION OIL & GAS COMPANY

API Well No.	Well Name	Well Status	Well Type	Location(T-R)	Section
43-013-30361-00-00	ALLRED 2-16A3	Active Well	Water Disposal	1S-3W	16
43-013-30370-00-00	UTE TRIBAL 1-25A3	Producing Well	Oil Well	1S-3W	25
43-013-30362-00-00	BIRCH 2-35A5	Active Well	Water Disposal	1S-5W	35
43-013-30337-00-00	G HANSON 2-4B3 SWD	Active Well	Water Disposal	2S-3W	4
43-013-30038-00-00	LAKE FORK 2-23B4	Active Well	Water Disposal	2S-4W	23
43-013-30371-00-00	LINDSAY RUSSELL 2-32B4	Active Well	Water Disposal	2S-4W	32
43-013-30121-00-00	TEW 1-9B5	Active Well	Water Disposal	2S-5W	9
43-013-30391-00-00	EHRICH 2-11B5	Active Well	Water Disposal	2S-5W	11
43-013-30340-00-00	LDS CHURCH 2-27B5	Active Well	Water Disposal	2S-5W	27
43-013-30289-00-00	RHOADES MOON 1-36B5	Shut_In	Oil Well	2S-5W	36
43-013-30056-00-00	UTE 1-14C6	Active Well	Water Disposal	3S-6W	14
43-047-33597-00-00	NBU SWD 2-16	Spudded (Drilling commenced: Not yet completed)	Water Disposal	10S-21E	16
43-047-32344-00-00	NBU 205	Shut_In	Gas Well	10S-22E	9
43-047-15880-00-00	SOUTHMAN CANYON U 3	Active Well	Water Disposal	10S-23E	15
43-047-31822-00-00	UTE 26-1		Water Disposal	4S-1E	26
43-047-32784-00-00	STIRRUP STATE 32-6	Active Well	Water Injection	6S-21E	32
43-047-30359-00-00	NBU 21-20B	Active Well	Water Disposal	9S-20E	20
43-047-33449-00-00	OURAY SWD 1	Approved permit (APD); not yet spudded	Water Disposal	9S-21E	1
43-047-31996-00-00	NBU 159	Active Well	Water Disposal	9S-21E	35

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DIVISION OF
OIL, GAS AND MINING

State of Delaware
Office of the Secretary of State

PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COASTAL OIL & GAS CORPORATION", CHANGING ITS NAME FROM "COASTAL OIL & GAS CORPORATION" TO "EL PASO PRODUCTION OIL & GAS COMPANY", FILED IN THIS OFFICE ON THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

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JUN 19 2001

DIVISION OF
OIL, GAS AND MINING



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

0610204 8100

AUTHENTICATION: 1061007

010162788

DATE: 04-03-01

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

COASTAL OIL & GAS CORPORATION (the "Company"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of the Company, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of the Company:

RESOLVED that it is deemed advisable that the Certificate of Incorporation of this Company be amended, and that said Certificate of Incorporation be so amended, by changing the Article thereof numbered "FIRST." so that, as amended, said Article shall be and read as follows:

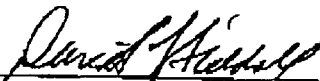
"FIRST. The name of the corporation is El Paso Production Oil & Gas Company."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders entitled to vote have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said COASTAL OIL & GAS CORPORATION has caused this certificate to be signed on its behalf by a Vice President and attested by an Assistant Secretary, this 9th day of March 2001.

COASTAL OIL & GAS CORPORATION



David L. Siddall
Vice President

Attest:


(Margaret E. Roark, Assistant Secretary)

RECEIVED

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 11:00 AM 03/09/2001
010118394 - 0610204

JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

State of Delaware
Office of the Secretary of State PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "COASTAL OIL & GAS CORPORATION", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "EL PASO PRODUCTION OIL & GAS COMPANY", THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

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DIVISION OF
OIL, GAS AND MINING



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

0610204 8320

AUTHENTICATION: 1103213

010202983

DATE: 04-27-01

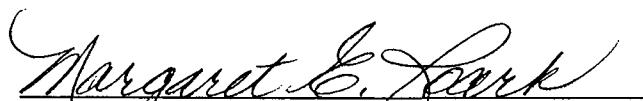
EL PASO PRODUCTION OIL & GAS COMPANY

CERTIFICATE OF INCUMBENCY

I, Margaret E. Roark, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of EL PASO PRODUCTION OIL & GAS COMPANY, a Delaware corporation (the "Company"), and that, as such, have the custody of the corporate records and seal of said Company; and

I do hereby further certify that the persons listed on the attached Exhibit A have been elected, qualified and are now acting in the capacities indicated, as of the date of this Certificate.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of El Paso Production Oil & Gas Company this 18th day of April 2001.


Margaret E. Roark, Assistant Secretary

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JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH		4-KAS
2. CDW		5-LV <i>6/28</i>
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

X Merger

The operator of the well(s) listed below has changed, effective: **3-09-2001**

FROM: (Old Operator):
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

TO: (New Operator):
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

CA No.

Unit:

WELL(S)

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
ALLRED 2-16A3	43-013-30361	99996	16-01S-03W	FEE	WD	A
BIRCH 2-35A5	43-013-30362	99996	35-01S-05W	FEE	WD	A
G HANSON 2-4B3 SWD	43-013-30337	99990	04-02S-03W	FEE	WD	A
LAKE FORK 2-23B4	43-013-30038	1970	23-02S-04W	FEE	WD	A
LINDSAY RUSSELL 2-32B4	43-013-30371	99996	32-02S-04W	FEE	WD	A
TEW 1-9B5	43-013-30121	1675	09-02S-05W	FEE	WD	A
EHRICH 2-11B5	43-013-30391	99990	11-02S-05W	FEE	WD	A
LDS CHURCH 2-27B5	43-013-30340	99990	27-02S-05W	FEE	WD	A
UTE 1-14C6	43-013-30056	12354	14-03S-06W	INDIAN	WD	A
SOUTHMAN CANYON U 3	43-047-15880	99990	15-10S-23E	FEDERAL	WD	A
STIRRUP STATE 32-6 (HORSESHOE BEND UNIT)	43-047-32784	12323	32-06S-21E	STATE	WIW	A
NBU 21-20B (NATURAL BUTTES UNIT)	43-047-30359	2900	20-09S-20E	FEDERAL	WD	A
NBU 159 (NATURAL BUTTES UNIT)	43-047-31996	2900	35-09S-21E	FEDERAL	WD	A

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/21/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 608186-0143

5. If **NO**, the operator was contacted contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: N/A
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 06/21/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 06/21/2001
3. Bond information entered in RBDMS on: 06/20/2001
4. Fee wells attached to bond in RBDMS on: 06/21/2001

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: 400JU0705

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: 400JU0708
2. The **FORMER** operator has requested a release of liability from their bond on: COMPLETION OF OPERATOR CHANGE
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: COMPLETION OF OPERATOR CHANGE

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 7.12.01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS: Master list of all wells involved in operator change from Coastal Oil & Gas Corporation to El Paso Production Oil and Gas Company shall be retained in the "Operator Change File".

well file

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 3

MONTHLY INJECTION REPORT

Operator: ELPASO PRODUCTION

Report Period: August 2005

Address: P.O. BOX 120
ALTAMONT
UTAH, 84001

Phone Number: (435) 454-3394

Amended Report: () (highlight changes)

Well Name and Number:

ALLRED 2-16A3

API Number: 43-013-30361

Location of Well

Maximum Allowable Inj Pressure: 1500

Field/Unit Name

Altamont/Bluebell

Footage: 3593' to 3,436'

County: Duchesne

Lease Designation and Number

QQ,

Section: 16

Township: 1S

Range: 3W

State: UTAH

UT2651-02556

Date	Volume Disposed	Hours in Service	Maximum Pressure	Average Operating Pressure	Tubing/Casing Annulus Pressure
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0
11	0	0	0	0	0
12	0	0	0	0	0
13	0	0	0	0	0
14	0	0	0	0	0
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
19	0	0	0	0	0
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0
31	0	0	0	0	0

Total Volume Injected for Month

0

All Time Cumulative Volume Injected

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Brad Jensen

Title Production Supervisor

Signature

Val Oman

Date: 9/8/2005

(5/2000)

*Carol - please change to Shut-in
injection per inspectors + Dan Jarvis
Thanks*

Carlene 9/19/05

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SEP 12 2005

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>Allred 2-16A3 SWD</u>	API Number: <u>4301330361</u>
Qtr/Qtr: <u>NE/NE</u> Section: <u>16</u>	Township: <u>1S</u> Range: <u>3W</u>
Company Name: <u>El Paso Production</u>	
Lease: State _____ Fee _____	Federal _____ Indian _____
Inspector: <u>Richard Powell</u>	Date: <u>9/15/05</u>

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

9:15

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>1000</u>	<u>0</u>
5	<u>1000</u>	<u>0</u>
10	<u>1000</u>	<u>0</u>
15	<u>1000</u>	<u>0</u>
20	<u>1000</u>	<u>0</u>
25	<u>1000</u>	<u>0</u>
30	<u>1000</u>	<u>0</u>

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 0 psiCasing/Tubing Annulus Pressure: 1000 psi

COMMENTS: _____

Lance D. Webb
Operator Representative

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SEP 20 2005

DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold)

X Operator Name Change

The operator of the well(s) listed below has changed, effective: 7/1/2006	
FROM: (Old Operator): N1845-El Paso Production O&G Company 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2300	TO: (New Operator): N3065-El Paso E&P Company, LP 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2131
CA No.	Unit:

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/5/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/5/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/30/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 2114377-0181
5. If **NO**, the operator was contacted on: _____
- 6a. (R649-9-2)Waste Management Plan has been received on: _____ requested 7/18/06
- 6b. Inspections of LA PA state/fee well sites complete on: ok
- 6c. Reports current for Production/Disposition & Sundries on: _____
7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet
8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/14/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 7/19/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/19/2006
3. Bond information entered in RBDMS on: 7/19/2006
4. Fee/State wells attached to bond in RBDMS on: 7/19/2006
5. Injection Projects to new operator in RBDMS on: 7/19/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 7/5/2006

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 103601420
2. Indian well(s) covered by Bond Number: 103601473
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 400JU0708
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a applicable wells moved
- The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/20/2006

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
EL PASO PRODUCTION OIL AND GAS COMPANY N1845

3. ADDRESS OF OPERATOR:
1339 EL SEGUNDO AVE NE ALBUQUERQUE NM 87113 PHONE NUMBER:
(505) 344-9380

4. LOCATION OF WELL
FOOTAGES AT SURFACE: SEE ATTACHED

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

5. LEASE DESIGNATION AND SERIAL NUMBER:
MULTIPLE LEASES

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:
SEE ATTACHED

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:
SEE ATTACHED

COUNTY: UINTAH & DUCHESNE

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

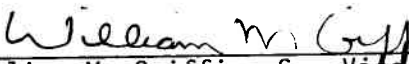
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: CHANGE OF OPERATOR

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PLEASE BE ADVISED THAT EL PASO PRODUCTION OIL AND GAS COMPANY (CURRENT OPERATOR) HAS TRANSFERRED ITS OPERATORSHIP TO EL PASO E&P COMPANY, L.P. (NEW OPERATOR) EFFECTIVE ~~JUNE 30,~~ July 1, 2006 AND THAT EL PASO E&P COMPANY, L.P. IS CONSIDERED TO BE THE NEW OPERATOR OF THE ATTACHED WELL LOCATIONS.


EL PASO E&P COMPANY, L.P. IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASED LANDS. BOND COVERAGE IS PROVIDED BY THE STATE OF UTAH STATEWIDE BLANKET BOND NO. 400JU0705, BUREAU OF LAND MANAGEMENT NATIONWIDE BOND NO. 103601420, AND BUREAU OF INDIAN AFFAIRS NATIONWIDE BOND NO. 103601473.

El Paso E & P Company, L. P. N3065
1001 Louisiana
Houston, TX 77002


William M. Griffin, Sr. Vice President

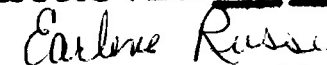
NAME (PLEASE PRINT) CHERYL CAMERON

TITLE AUTHORIZED REGULATORY AGENT

SIGNATURE 

DATE 6/20/2006

(This space for State use only)

APPROVED 7/19/06

Earlene Russell, Engineering Technician

(5/2000)

(See Instructions on Reverse Side)

RECEIVED
JUL 05 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5


TRANSFER OF AUTHORITY TO INJECT

Well Name and Number ALLRED 2-16A3	API Number 4301330361
Location of Well Footage : 470' FNL, 1292' FEL County : DUCHESNE QQ, Section, Township, Range: NENE 16 1S 3W State : UTAH	Field or Unit Name ALTAMONT/BLUEBELL Lease Designation and Number FEE

EFFECTIVE DATE OF TRANSFER: 6/30/2006


CURRENT OPERATOR

Company: EL PASO PRODUCTION OIL & GAS COMPANY
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9380
Comments:

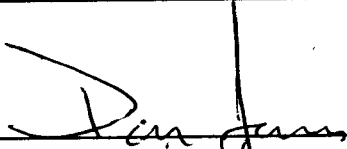
Name: CHERYL CAMERON
Signature: 
Title: REGULATORY ANALYST
Date: 6/6/2006

NEW OPERATOR

Company: EL PASO E&P COMPANY, L.P.
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9380
Comments:

Name: CHERYL CAMERON
Signature: 
Title: REGULATORY ANALYST
Date: 6/6/2006

(This space for State use only)

Transfer approved by: 
Title: Geologist

Approval Date: 7/14/06

Comments:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
1. TYPE OF WELL Water Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana St. , Houston, TX, 77002		8. WELL NAME and NUMBER: ALLRED 2-16A3
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0470 FNL 1292 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 01.0S Range: 03.0W Meridian: U		9. API NUMBER: 43013303610000
PHONE NUMBER: 713 420-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/11/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div>	
OTHER: Activate Inactive Injection Well		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Spoke to Mr. Brad Hill today gave verbal approval to do an injectivity test to ensure able to inject into well. If able to inject to need to do MIT before being able reactivate.		
Approved by the Utah Division of Oil, Gas and Mining Date: January 12, 2012 By:		
NAME (PLEASE PRINT) Maria S. Gomez		PHONE NUMBER 713 420-5038
SIGNATURE N/A		TITLE Principle Regulatory Analyst
DATE 1/10/2012		

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/1/2012

FROM: (Old Operator): N3065- El Paso E&P Company, L.P. 1001 Louisiana Street Houston, TX. 77002 Phone: 1 (713) 997-5038	TO: (New Operator): N3850- EP Energy E&P Company, L.P. 1001 Louisiana Street Houston, TX. 77002 Phone: 1 (713) 997-5038
--	---

CA No.

Unit:

N/A

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/25/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/27/2012
- Is the new operator registered in the State of Utah: _____ Business Number: 2114377-0181
- (R649-9-2)Waste Management Plan has been received on: Yes
- Inspections of LA PA state/fee well sites complete on: N/A
- Reports current for Production/Disposition & Sundries on: 6/25/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM N/A BIA Not Received
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 9/12/2012

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 9/24/2102
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/24/2012
- Bond information entered in RBDMS on: 9/24/2012
- Fee/State wells attached to bond in RBDMS on: 9/24/2012
- Injection Projects to new operator in RBDMS on: 9/24/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: 103601420
- Indian well(s) covered by Bond Number: 103601473
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0705
- The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 9/24/2012

COMMENTS:

Well Name	Sec	TWP	RNG	API Number	Enity Number	Lease	Well Tyoe	Well Status
UTE 1-14C6	14	030S	060W	4301330056	12354	Indian	WD	A
UTE TRIBAL 1-A	18	030S	060W	4301315122	99990	Fee	WD	A
LAKE FORK 2-23B4	23	020S	040W	4301330038	1970	Fee	WD	A
TEW 1-9B5	09	020S	050W	4301330121	1675	Fee	WD	A
RHOADES MOON 1-36B5	36	020S	050W	4301330289	4765	Fee	WD	A
G HANSON 2-4B3 SWD	04	020S	030W	4301330337	99990	Fee	WD	A
LDS CHURCH 2-27B5	27	020S	050W	4301330340	99990	Fee	WD	A
LINDSAY RUSSELL 2-32B4	32	020S	040W	4301330371	99996	Fee	WD	A
EHRICH 2-11B5	11	020S	050W	4301330391	99990	Fee	WD	A
LAWSON 1-21A1	21	010S	010W	4301330738	935	Fee	WI	A
DAVIS 1-33A1E	33	010S	010E	4304730384	805	Fee	WD	A
ALLRED 2-16A3	16	010S	030W	4301330361	99996	Fee	WD	I
BIRCH 2-35A5	35	010S	050W	4301330362	99996	Fee	WD	I

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

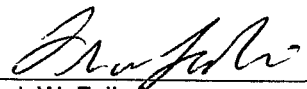
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple Leases
2. NAME OF OPERATOR: El Paso E&P Company, L.P. Attn: Maria Gomez		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002 PHONE NUMBER: (713) 997-5038		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached		8. WELL NAME and NUMBER: See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT: See Attached
		COUNTY:
		STATE: UTAH

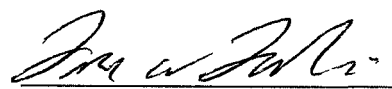
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: Change of Name/Operator
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.


Frank W. Falleri
Vice President
El Paso E&P Company, L.P.

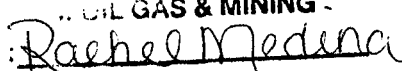

Frank W. Falleri
Sr. Vice President
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) Maria S. Gomez	TITLE Principal Regulatory Analyst
SIGNATURE 	DATE 6/22/2012

(This space for State use only)

APPROVED

SEP 24 2012

.. OIL GAS & MINING -


(5/2000)

(See Instructions on Reverse Side)

RECEIVED

JUN 25 2012

DIV OF OIL GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number Allred 2-16A3	API Number 4301330361
Location of Well Footage : 470' FNL & 1292' FEL County : Duchesne QQ, Section, Township, Range: NENE 16 1S 3W State : UTAH	Field or Unit Name Altamont/Bluebell Lease Designation and Number Fee

EFFECTIVE DATE OF TRANSFER: 6/1/2012

CURRENT OPERATOR

Company: El Paso E&P Company, L.P.
Address: 1001 Louisiana
city Houston state TX zip 77002
Phone: (713) 997-5038
Comments:

Name: Maria S. Gomez
Signature: *Maria S. Gomez*
Title: Principal Regulatory Analyst
Date: 9/11/2012

NEW OPERATOR

Company: EP Energy E&P Company, L.P.
Address: 1001 Louisiana
city Houston state TX zip 77002
Phone: (713) 997-5038
Comments:

Name: Maria S. Gomez
Signature: *Maria S. Gomez*
Title: Principal Regulatory Analyst
Date: 9/11/2012

(This space for State use only)

Transfer approved by: *[Signature]*
Title: *VIC 6/10/12*

Approval Date: *9/19/2012*

Comments:

RECEIVED
SEP 12 2012

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: ALLRED 2-16A3	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013303610000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0470 FNL 1292 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 16 Township: 01.0S Range: 03.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA


TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/29/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="MIT"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached detailed procedure

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**

Date: February 12, 2013

By: 

NAME (PLEASE PRINT) Lisa Morales	PHONE NUMBER 713 997-3587	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 1/28/2013



Allred 2-16A3 SWD
Mechanical Integrity Test

API #: 43-013- 30361
Sec. 16, T1S – R3W
Latitude = 40°24'05.975N Longitude = 110°13'19.847W
Altamont Field
Duchesne County, Utah

Procedure

1. MIRU Slickline Unit. PU 1-1/2" SB, RIH for a TD check. If perfs are covered continue with procedure, if perfs are clear skip to step 6.
2. MIRU workover rig. ND tree and NU and test BOP's to 5,000# for 10 minutes. Have test recorded and charted to be signed and dated by well site supervisor. Record BOP serial number.
3. Release Baker Model N packer at ~3,493' and POOH scanning tubing for wear. Lay out all bad joints.
4. PU 6-1/8" RB, 7" 23# casing scraper, 2 x 3 1/2" drill collars on 2 7/8" tubing. Hydro test tubing to 7,000# while RIH. Work down to ~4,600' and attempt to establish circ with 2% KCL, circ until returns clean. POOH. If perforations take fluid on way in, mix a 10 bbl HEC pill and circulate around or spot as needed. Keep wellbore full.
5. PU 7" 23# Retrievable Packer (Arrowset or Baker Model "R") on 2 7/8" tubing. RIH to **±3,550'** (top perf @ 3,593') and set packer.
6. MIRU test pump & establish injection rate down the tbg. Record injection rates and pressures and discuss plans going forward w/ Houston before continuing with procedure.
7. Pump 15,000 gal HCl down tbg at no higher than 1,500psi.
8. Notify UDOGM rep of upcoming MIT and request MIT form. (see attached contact info)
9. Test backside to 1,000# for 30 mins. Have test recorded and charted and signed and dated by well site supervisor.
10. If casing fails MIT, begin isolation testing to identify leak(s) documenting pressures and injection rates.
11. Report results to Houston to discuss plans going forward
12. RD&MO service rig. Clean location.